

Sequence Listing

<110> Keio University

<120> PROTEIN FORMING COMPLEX WITH c-Fos PROTEIN, NUCLEIC ACID ENCODING
THE SAME AND METHOD OF USING THE SAME

<130> P393-OP1718

<150> JP 2002-360046

<151> 2002-12-11

<160> 191

<170> PatentIn version 3.0

<210> 1

<211> 184

<212> PRT

<213> Mus musculus

<400> 1

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Met Pro Leu Arg His Leu Ala Asp Arg Leu Gly His Leu Ala Asp Arg
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Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg
          20           25           30
His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu
        35           40           45
Ala Asp Arg Leu Lys His Leu Thr Ser Arg Leu Gly His Leu Thr Asp
        50           55           60
Arg Ser Trp His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu
65           70           75           80
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Gln Arg Tyr
          85           90           95
Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr
        100          105          110
Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg
        115          120          125
Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met
        130          135          140
His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu
145          150          155          160
Ala Asp Arg Gln Arg His Leu Ala Asp Arg Leu Arg His Leu Ala Asp

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165 170 175
Lys Leu Arg His Gln Leu Gln Leu
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<210>	2
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<212>	PRT
<213>	Mus musculus

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Asp Lys Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg
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His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu
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Ala Asp Arg Gln Arg His Asp
          50          55

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<210>	3
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<212>	PRT
<213>	Mus musculus

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His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu
           35           40           45
Ala Asp Arg Gln Arg His Asp
           50           55

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<213>	Mus musculus

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 Ser His Pro Thr Gln Thr
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 <212> PRT
 <213> Mus musculus

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 Ala Asp Arg Arg Arg His Asp
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<400> 7
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 20 25 30
 His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Pro Arg His Leu

	35	40	45
Ala	Asp	Arg	Gln
	Arg	His	Asp
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 35 40 45
 Ala Asp Arg Gln Arg His Asp
 50 55

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 35 40 45

<210> 10
 <211> 38
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 <213> Mus musculus

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 20 25 30
 Asp Arg Leu Arg Gln Arg

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 <213> Mus musculus

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 <213> Mus musculus

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 Arg His Leu Ala Asp Gln
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 35 40 45

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 1 5 10 15
 Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met
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 Arg Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu
 35 40 45
 Ala Asp Arg Gln Arg His Asp
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<210> 15

<211> 281

<212> PRT

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 20 25 30
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 35 40 45
 Asp Ile Ala Arg Ala Arg Glu Asn Ile Gln Lys Ser Leu Ala Gly Ser
 50 55 60
 Ser Gly Pro Gly Ala Ser Ser Gly Pro Gly Gly Asp His Ser Glu Leu
 65 70 75 80
 Ile Val Arg Ile Thr Ser Leu Glu Val Glu Asn Gln Asn Leu Arg Gly
 85 90 95
 Val Val Gln Asp Leu Gln Gln Ala Ile Ser Lys Leu Glu Ala Arg Leu
 100 105 110
 Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg Ala Thr Ala Pro Gln
 115 120 125
 Thr Gln His Val Ser Pro Met Arg Gln Val Glu Pro Pro Thr Lys Lys
 130 135 140
 Gly Ala Thr Pro Ala Glu Asp Asp Glu Asp Lys Asp Ile Asp Leu Phe
 145 150 155 160
 Gly Ser Asp Glu Glu Glu Glu Asp Lys Glu Ala Ala Arg Leu Arg Glu
 165 170 175
 Glu Arg Leu Arg Gln Tyr Ala Glu Lys Lys Ala Lys Lys Pro Thr Leu
 180 185 190
 Val Ala Lys Ser Ser Ile Leu Leu Asp Val Lys Pro Trp Asp Asp Glu
 195 200 205

Thr Asp Met Ala Gln Leu Glu Thr Cys Val Arg Ser Ile Gln Leu Asp
 210 215 220
 Gly Leu Val Trp Gly Ala Ser Lys Leu Val Pro Val Gly Tyr Gly Ile
 225 230 235 240
 Arg Lys Leu Gln Ile Gln Cys Val Val Glu Asp Asp Lys Val Gly Thr
 245 250 255
 Asp Leu Leu Glu Glu Glu Ile Thr Lys Phe Glu Glu His Val Gln Ser
 260 265 270
 Val Asp Ile Ala Ala Phe Asp Lys Ile
 275 280

<210> 16
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 <213> Mus musculus

<400> 16
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 1 5 10 15
 Asn Leu Arg Gly Val Val Gln Asp Leu Gln Gln Ala Ile Ser Lys Leu
 20 25 30
 Glu Ala Arg Leu Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg Ala
 35 40 45
 Thr Ala Pro Gln Thr Arg
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<210> 17
 <211> 53
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<400> 17
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 1 5 10 15
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 20 25 30
 Ala Arg Leu Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg Ala Thr
 35 40 45
 Ala Pro Gln Thr Arg
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<210> 18
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<213> Mus musculus

<400> 18

His	Ser	Glu	Leu	Ile	Val	Arg	Ile	Asn	Ser	Leu	Glu	Val	Glu	Asn	Gln
1				5				10					15		
Asn	Leu	Arg	Gly	Val	Val	Gln	Asp	Leu	Gln	Gln	Ala	Ile	Ser	Lys	Leu
			20					25					30		
Glu	Ala	Arg	Leu	Ser	Ser	Leu	Glu	Lys	Ser	Ser	Pro	Thr	Pro	Arg	Ala
			35				40					45			
Thr	Ala	Pro	Arg	Thr	Arg										
			50												

<210> 19

<211> 54

<212> PRT

<213> Mus musculus

<400> 19

His	Ser	Glu	Leu	Ile	Val	Arg	Ile	Thr	Ser	Leu	Glu	Val	Glu	Asn	Gln
1				5				10					15		
Asn	Leu	Arg	Gly	Val	Val	Gln	Asp	Leu	Gln	Gln	Ala	Ile	Ser	Arg	Leu
			20					25					30		
Glu	Ala	Arg	Leu	Ser	Ser	Leu	Glu	Lys	Ser	Ser	Pro	Thr	Pro	Arg	Ala
			35				40					45			
Thr	Ala	Pro	Gln	Thr	Arg										
			50												

<210> 20

<211> 268

<212> PRT

<213> Mus musculus

<400> 20

Met	Leu	Ser	Ala	Phe	Pro	Ala	Gln	Leu	Ala	Gln	Gln	Ser	Ser	Phe	Gly
1				5				10						15	
Val	Cys	Val	Leu	Gly	Cys	Thr	Glu	Met	Val	His	Gln	Glu	Asn	Cys	Ser
			20					25					30		
Tyr	Gln	Ala	Gln	Lys	Asn	Glu	Arg	Glu	Ser	Ile	Arg	Gln	Lys	Leu	Ala
			35				40					45			
Leu	Gly	Ser	Phe	Phe	Asp	Asp	Gly	Pro	Gly	Ile	Tyr	Thr	Ser	Cys	Ser
			50				55				60				
Lys	Ser	Gly	Lys	Pro	Ser	Leu	Ser	Ala	Arg	Leu	Gln	Ser	Gly	Met	Asn

9/79

65					70					75					80
Leu	Gln	Ile	Cys	Phe	Val	Asn	Asp	Ser	Gly	Ser	Asp	Lys	Asp	Ser	Asp
				85					90					95	
Ala	Asp	Asp	Ser	Lys	Thr	Glu	Thr	Ser	Leu	Asp	Thr	Pro	Leu	Ser	Pro
			100					105					110		
Met	Ser	Lys	Gln	Ser	Ser	Ser	Tyr	Ser	Asp	Arg	Asp	Thr	Thr	Glu	Glu
		115					120					125			
Glu	Ser	Glu	Ser	Leu	Asp	Asp	Met	Asp	Phe	Leu	Thr	Arg	Gln	Lys	Lys
	130					135					140				
Leu	Gln	Ala	Glu	Ala	Lys	Met	Ala	Leu	Ala	Met	Ala	Lys	Pro	Met	Ala
145					150				155					160	
Lys	Met	Gln	Val	Glu	Val	Glu	Arg	Gln	Asn	Arg	Lys	Lys	Ser	Pro	Val
			165					170					175		
Ala	Asp	Leu	Leu	Pro	His	Met	Pro	His	Ile	Ser	Glu	Cys	Leu	Met	Lys
		180					185				190				
Arg	Ser	Leu	Lys	Pro	Thr	Asp	Leu	Arg	Asp	Met	Thr	Ile	Gly	Gln	Leu
	195					200					205				
Gln	Val	Ile	Val	Asn	Asp	Leu	His	Ser	Gln	Ile	Glu	Ser	Leu	Asn	Glu
	210				215					220					
Glu	Leu	Val	Gln	Leu	Leu	Leu	Ile	Arg	Asp	Glu	Leu	His	Thr	Glu	Gln
225				230					235					240	
Asp	Ala	Met	Leu	Val	Asp	Ile	Glu	Asp	Leu	Thr	Arg	His	Ala	Glu	Ser
			245				250				255				
Gln	Gln	Lys	His	Met	Ala	Glu	Lys	Met	Pro	Ala	Lys				
		260					265								

<210> 21

<211> 78

<212> PRT

<213> Mus musculus

<400> 21

Pro	His	Thr	Pro	His	Ile	Ser	Glu	Cys	Leu	Met	Lys	Arg	Ser	Leu	Lys
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Pro	Thr	Asp	Leu	Arg	Asp	Met	Thr	Ile	Gly	Gln	Leu	Gln	Val	Ile	Val
		20				25					30				
Asn	Asp	Leu	His	Ser	Gln	Ile	Glu	Ser	Leu	Asn	Glu	Glu	Leu	Val	Gln
	35				40				45						
Leu	Leu	Leu	Ile	Arg	Asp	Glu	Leu	His	Thr	Glu	Gln	Asp	Ala	Met	Leu
	50				55				60						
Val	Asp	Ile	Glu	Asp	Leu	Thr	Arg	His	Ala	Glu	Arg	Glu	Gln		
65					70				75						

<210> 22
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 <212> PRT
 <213> Mus musculus

<400> 22
 Pro His Met Pro His Ile Ser Glu Cys Leu Met Lys Arg Ser Leu Lys
 1 5 10 15
 Pro Thr Asp Leu Arg Asp Met Thr Ile Gly Gln Leu Gln Val Ile Val
 20 25 30
 Asn Asp Leu His Ser Gln Ile Glu Arg Leu Asn Glu Glu Leu Val Gln
 35 40 45
 Leu Leu Leu Ile Arg Asp Glu Leu His Thr Glu Gln Asp Ala Met Leu
 50 55 60
 Val Asp Ile Glu Asp Leu Thr Arg His Ala Glu Lys Glu Gln
 65 70 75

<210> 23
 <211> 552
 <212> DNA
 <213> Mus musculus

<400> 23
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 ctagcagaca gattgaggca tctagcagac agactgaaac atcttaccag cagattgggg 180
 catctaacag acagatcatg gcatctaaca gacagatttg ggcattctaac agacagattg 240
 aggcattctaa cagacagatt ggggcatcta acagacagac agaggatatct agcagacaga 300
 ttgaggcatc taacagacag attggggcat ctaacagaca gactgaggca tctaacagac 360
 agattggggc atctaacaga cagactgagg catctaacag acagattggg gcatctaaca 420
 gacagactga tgcattctaac agacagactg aggcattctag cagacagaca gaggcatcta 480
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 cagctgcagc tg 552

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 <213> Mus musculus

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165

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<211> 165

<212> DNA

<213> Mus musculus

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acagacagat tggggcatct aacagacaga ctgatgcac taacagacag actgatgcat 120
ctaacagaca gactgaggca tctagcagac agacagaggc acgac 165

<210> 26

<211> 165

<212> DNA

<213> Mus musculus

<400> 26

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ctaacagaca gactgaggca tctagcagac aggcagaggc acgac 165

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<211> 165

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<400> 27

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acagacagat tggggcatgt aacagacaga ctgatgcatt taacagacag actgatgcat 120
ctaacagaca gactgaggca tttagcagac agacagaggc acgac 165

<210> 28

<211> 114

<212> DNA

<213> Mus musculus

<400> 28

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<210> 29

<211> 135

<212> DNA

<213> Mus musculus

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ctagcagttta gacag	135

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<211> 165

<212> DNA

<213> Mus musculus

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acagacagat tggggcattct aacagacaga ctgatgcattc taacagacag actgatgcatt	120
ctaacagaca gactgaggca tctagcagac agacggaggc acgac	165

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<211> 165

<212> DNA

<213> Mus musculus

<400> 31

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acagacagat tggggcattct aacagacaga ctgatgcattc taacagacag actgatgcac	120
ctaacagaca gaccgaggca tctagcagac agacagaggc acgac	165

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<211> 165

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<213> Mus musculus

<400> 32

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acagacagat tggggcattct aacagacaga ctgatgcattc taacagacag actgatgcatt	120
ctaacagaca gactggggca tctagcagac agacagaggc acgac	165

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<213> Mus musculus

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<213> Mus musculus

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ctgaggcatc tagcagacag acagaggcac gac 93

<210> 36
<211> 114
<212> DNA
<213> Mus musculus

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<210> 37
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acagacagac tgatccatct aacagacaga ctgatgcac taacagacag actgaggcat 120
ctagcagtca gacag 135

<210> 38

<211> 165
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 ctaacagaca gactgaggca tctagcagac agacagaggc acgac 165

<210> 39
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 aatggtgcc a gctgatcct ccgagacatt gcaagagcca gagagaacat ccagaaatcc 180
 ttggctggaa gctcaggccc tggagcctcc agtggacctg gtggagacca cagttagctc 240
 attgtgagga ttaccagtct ggaagtggag aaccagaacc ttcgaggcgt ggtgcaagat 300
 ttgcagcagg ccatttccaa gttggaggcc cggctgagct ctctagagaa gagttcacct 360
 actccccgag ccacggcccc acagacccaa catgtctctc ctatgcgtca agtggagccc 420
 ccaaccaaga aaggagccac accagcagag gacgatgagg acaaggacat tgacctgttc 480
 ggcagtgacg aggaggaaga agataaggag gctgcccagc tacgggagga gaggctacgc 540
 cagtacgcag agaagaaggc caagaagccc acactggtgg ccaaatactc catccttttg 600
 gatgttaaac cttgggatga tgagactgac atggcccagc tagagacttg tgtgcgttcc 660
 atccaattgg acgggctggt ttggggggcc tccaagcttg tgcctgttgg ctatggcatc 720
 cggaagctgc agatccagtg tgtggtggag gatgacaaag tgggcaccga cttgctcgag 780
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 atc 843

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 <211> 162
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 <213> Mus musculus

<400> 40
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 gtggtgcaag atttgcagca ggccatttcc aagttggagg cccggctgag ctctctagag 120
 aagagtccac ctactccccg agccacggcc ccacagaccc ga 162

<210> 41
 <211> 159

<212> DNA

<213> Mus musculus

<400> 41

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gtgcaagatt	tgcagcaggt	catttccaag	ttggaggccc	ggctgagctc	tctagagaag	120
agttcaccta	ctccccgagc	cacggcccca	cagacccga			159

<210> 42

<211> 162

<212> DNA

<213> Mus musculus

<400> 42

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gtgggtgcaag	atttgcagca	ggccatttcc	aagttggagg	cccggctgag	ctctttagag	120
aagagttcac	ctactccccg	agccacggcc	ccacggaccc	ga		162

<210> 43

<211> 162

<212> DNA

<213> Mus musculus

<400> 43

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gtgggtgcaag	atttgcagca	ggccatttcc	aggttggagg	cccggctgag	ctctctagag	120
aagagttcac	ctactccccg	agccacggcc	ccacagaccc	ga		162

<210> 44

<211> 804

<212> DNA

<213> Mus musculus

<400> 44

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gagtctatca	gacagaagtt	ggcactcgga	agcttctttg	acgatggccc	aggaatctat	180
accagctgca	gcaaaagtgg	gaagccaagc	ctttctgcaa	gactacagag	cgggatgaac	240
ctccagatat	gctttgtcaa	tgacagcggc	agtgacaagg	acagcgatgc	agatgacagt	300
aagacggaaa	ccagcttgga	cacgcccttg	tcccccatga	gcaagcagag	ttcttcctat	360
tcggatagag	acacaactga	ggaggagtct	gaatccctgg	atgacatgga	cttcctcaca	420
aggcaaaaga	agctacaagc	tgaagccaaa	atggctctgg	ccatggccaa	accaatggcc	480
aaaatgcaag	tagaagtgga	aagacagaa	aggaaaaagt	ctcccgtcgc	tgatcttctc	540

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ccacacatgc ctcacataag cgaatgtttg atgaaaagaa gcttaaagcc caccgacctg 600
agagacatga ctatcgggca gctacaagtg atcgtcaatg acctccactc ccagattgaa 660
agtttgaatg aagagtttgt ccagctgctc cttattcgag atgagctgca cacagaacaa 720
gatgccatgc tgggtggacat tgaagacttg actagacacg ctgagagtca gcagaagcac 780
atggctgaga aaatgccccg gaag 804

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<210> 45
 <211> 234
 <212> DNA
 <213> Mus musculus

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<400> 45
ccacacacgc ctcacataag cgaatgtttg atgaaaagaa gcttaaagcc caccgacctg 60
agagacatga ctatcgggca gctacaagtg atcgtcaatg acctccactc ccagattgaa 120
agtttgaatg aagagtttgt ccagctgctc cttattcgag atgagctgca cacagaacaa 180
gatgccatgc tgggtggacat tgaagacttg actagacacg ctgagaggga gcag 234

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<210> 46
 <211> 234
 <212> DNA
 <213> Mus musculus

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<400> 46
ccacacatgc ctcacataag cgaatgtttg atgaaaagaa gcttaaagcc caccgacctg 60
agagacatga ctatcgggca gctacaagtg atcgtcaatg acctccactc ccagattgag 120
cgtttgaatg aagagtttgt ccagctgctc cttattcgag atgagctgca cacagaacaa 180
gatgccatgc tgggtggacat tgaagacttg actagacacg ctgagaagga gcag 234

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<210> 47
 <211> 191
 <212> PRT
 <213> Mus musculus

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<400> 47
Met Pro Leu Arg His Leu Ala Asp Arg Leu Gly His Leu Ala Asp Arg
1           5           10           15
Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg
           20           25           30
His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Lys His Leu
           35           40           45
Ala Asp Arg Leu Lys His Leu Thr Asp Arg Leu Gly His Leu Thr Asp
           50           55           60
Arg Ser Trp His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu

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65		70		75		80									
Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Gln	Arg	Tyr
				85					90					95	
Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr
				100				105					110		
Asp	Lys	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg
		115					120					125			
Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu	Met
	130					135					140				
His	Leu	Thr	Asp	Arg	Leu	Met	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu
145					150				155					160	
Ala	Asp	Arg	Gln	Arg	His	Leu	Ala	Asp	Arg	Gln	Arg	His	Leu	Ala	Asp
			165					170					175		
Arg	Leu	Arg	His	Leu	Ala	Asp	Lys	Leu	Arg	His	Gln	Leu	Gln	Leu	
		180					185					190			

<210> 48
 <211> 71
 <212> PRT
 <213> Mus musculus

<400> 48
 Ile Glu Ala Ser Asn Arg Gln Ile Gly Ala Ser Asn Arg Gln Thr Glu
 1 5 10 15
 Ala Ser Asn Arg Gln Ile Gly His Leu Thr Asp Arg Leu Arg His Leu
 20 25 30
 Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp
 35 40 45
 Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Gln
 50 55 60
 Arg His Leu Ala Asp Arg Leu
 65 70

<210> 49
 <211> 55
 <212> PRT
 <213> Mus musculus

<400> 49
 Asp Lys Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg
 1 5 10 15
 Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met
 20 25 30

His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu
 35 40 45
 Ala Asp Arg Gln Arg His Asp
 50 55

<210> 50
 <211> 45
 <212> PRT
 <213> Mus musculus

<400> 50
 Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg
 1 5 10 15
 Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met
 20 25 30
 His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

<210> 51
 <211> 45
 <212> PRT
 <213> Mus musculus

<400> 51
 Asp Arg Leu Gly Arg Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg
 1 5 10 15
 Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met
 20 25 30
 His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

<210> 52
 <211> 45
 <212> PRT
 <213> Mus musculus

<400> 52
 Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg Tyr Leu Thr Asp Arg
 1 5 10 15
 Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met
 20 25 30
 His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

<210> 53
 <211> 45
 <212> PRT
 <213> Mus musculus

<400> 53
 Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg
 1 5 10 15
 Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Thr
 20 25 30
 His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

<210> 54
 <211> 45
 <212> PRT
 <213> Mus musculus

<400> 54
 Asp Arg Leu Gly His Leu Thr Asp Arg Leu Lys His Leu Thr Asp Arg
 1 5 10 15
 Leu Gly His Leu Thr Asp Arg Leu Ile His Leu Thr Asp Arg Leu Met
 20 25 30
 His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

<210> 55
 <211> 45
 <212> PRT
 <213> Mus musculus

<400> 55
 Gly Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg
 1 5 10 15
 Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met
 20 25 30
 His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

<210> 56
 <211> 38
 <212> PRT

<213> Mus musculus

<400> 56

Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg
1				5					10					15	
Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Lys	His	Leu	Ala	Asp	Arg	Leu	Lys
			20					25						30	
His	Leu	Thr	Asn	Arg	Lys										
			35												

<210> 57

<211> 184

<212> PRT

<213> Mus musculus

<400> 57

Met	Pro	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Gly	His	Leu	Ala	Asp	Arg
1				5					10					15	
Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg
			20					25						30	
His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu
		35					40					45			
Ala	Asp	Arg	Leu	Lys	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp
	50					55					60				
Arg	Ser	Trp	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu
65				70					75					80	
Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Gln	Arg	Tyr
			85					90						95	
Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr
			100					105					110		
Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg
		115					120					125			
Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu	Met
	130					135						140			
His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Gln	Arg	His	Leu
145					150					155				160	
Ala	Asp	Arg	Gln	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp
			165						170					175	
Lys	Leu	Arg	His	Gln	Leu	Gln	Leu								
					180										

<210> 58

<211> 79

<212> PRT

<213> Mus musculus

<400> 58

Glu Lys Val Lys Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr
 1 5 10 15
 Ala Asn Thr Leu Arg Glu Gln Val Ala Leu Leu Lys Gln Lys Val Met
 20 25 30
 Asn His Val Asn Ser Gly Cys Gln Leu Met Leu Thr Gln Gln Leu Gln
 35 40 45
 Thr Phe Trp Glu Gln Thr Val Arg Ala Glu Gly Gln Trp Lys Lys Lys
 50 55 60
 Asn Asn Arg Asp Lys Leu Glu Asn Leu Thr Gly Cys Asp Arg Glu
 65 70 75

<210> 59

<211> 76

<212> PRT

<213> Mus musculus

<400> 59

Arg Ile Lys Ala Glu Arg Lys Arg Met Arg Asn Arg Ile Ala Ala Ser
 1 5 10 15
 Glu Cys Arg Lys Arg Lys Leu Glu Arg Ile Ala Arg Leu Glu Glu Lys
 20 25 30
 Val Lys Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn
 35 40 45
 Met Leu Arg Glu Gln Val Ala Gln Leu Lys Gln Lys Val Met Asn His
 50 55 60
 Val Asn Ser Gly Cys Gln Leu Met Leu Thr Gln Gln
 65 70 75

<210> 60

<211> 49

<212> PRT

<213> Mus musculus

<400> 60

Gly His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His
 1 5 10 15
 Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala
 20 25 30
 Asp Arg Leu Arg His Leu Ala Asp Arg Leu Lys His Leu Thr Asp Arg

35 40 45
Tyr

<210> 61
<211> 56
<212> PRT
<213> Mus musculus

<400> 61
His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu
1 5 10 15
Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Thr Asp
 20 25 30
Arg Leu Met His Leu Thr Asp Arg Leu Gly His Leu Ala Asp Arg Gln
 35 40 45
Arg His Leu Ala Asp Arg Gln Arg
 50 55

<210> 62
<211> 44
<212> PRT
<213> Mus musculus

<400> 62
Ala Asp Arg Leu Gly His Leu Ala Asp Arg Leu Arg His Leu Thr Asp
1 5 10 15
Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu
 20 25 30
Arg His Leu Ala Asp Arg Leu Arg His Leu Ala Asp
 35 40

<210> 63
<211> 27
<212> PRT
<213> Mus musculus

<400> 63
Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp
1 5 10 15
Arg Leu Arg His Leu Thr Asp Arg Leu Arg His
 20 25

<210> 64
 <211> 53
 <212> PRT
 <213> Mus musculus

<400> 64
 Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp
 1 5 10 15
 Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu
 20 25 30
 Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His
 35 40 45
 Leu Ala Asp Arg Pro
 50

<210> 65
 <211> 46
 <212> PRT
 <213> Mus musculus

<400> 65
 Arg Gln Arg His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu
 1 5 10 15
 Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His
 20 25 30
 Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg Pro
 35 40 45

<210> 66
 <211> 39
 <212> PRT
 <213> Mus musculus

<400> 66
 Asp Arg Leu Ser His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg
 1 5 10 15
 Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg
 20 25 30
 His Leu Ala Asp Arg Gln Arg
 35

<210> 67
 <211> 39

<212> PRT

<213> Mus musculus

<400> 67

Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg
 1 5 10 15
 Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg
 20 25 30
 His Leu Ala Asp Arg Gln Arg
 35

<210> 68

<211> 39

<212> PRT

<213> Mus musculus

<400> 68

Gly Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg
 1 5 10 15
 Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg
 20 25 30
 His Leu Ala Asp Arg Gln Arg
 35

<210> 69

<211> 43

<212> PRT

<213> Mus musculus

<400> 69

Tyr Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu
 1 5 10 15
 Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp
 20 25 30
 Arg Leu Arg His Leu Thr Asp Arg Leu Gly Gln
 35 40

<210> 70

<211> 43

<212> PRT

<213> Mus musculus

<400> 70

Tyr Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu
 1 5 10 15
 Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp
 20 25 30
 Arg Leu Arg His Leu Thr Asp Arg Leu Gly Gln
 35 40

<210> 71
 <211> 76
 <212> PRT
 <213> Mus musculus

<400> 71
 Arg Ile Lys Ala Glu Arg Lys Arg Met Arg Asn Arg Ile Ala Ala Ser
 1 5 10 15
 Lys Cys Arg Lys Arg Lys Leu Glu Arg Ile Ala Arg Leu Glu Glu Lys
 20 25 30
 Val Lys Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn
 35 40 45
 Met Leu Arg Glu Gln Val Ala Gln Leu Lys Gln Lys Val Met Asn His
 50 55 60
 Val Asn Ser Gly Cys Gln Leu Met Leu Thr Gln Gln
 65 70 75

<210> 72
 <211> 44
 <212> PRT
 <213> Mus musculus

<400> 72
 Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly
 1 5 10 15
 His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu
 20 25 30
 Ala Asp Arg Gln Arg His Leu Ala Asp Arg Gln Lys
 35 40

<210> 73
 <211> 36
 <212> PRT
 <213> Mus musculus

<400> 73

Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly
1 5 10 15
His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu
20 25 30
Ala Asp Thr Gln
35

<210>	74
<211>	44
<212>	PRT
<213>	Mus musculus

<400> 74
Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His
1 5 10 15
Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr
20 25 30
Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His
35 40

<210>	75
<211>	51
<212>	PRT
<213>	Mus musculus

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<400> 75
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His
1          5          10          15
Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr
20          25          30
Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu Ala Asp Arg
35          40          45
Gln Arg His
50

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<210>	76
<211>	51
<212>	PRT
<213>	Mus musculus

<400> 76
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His
1 5 10 15

Leu Thr Asp Arg Leu Gly Arg Leu Thr Asp Arg Leu Met His Leu Thr
 20 25 30
 Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu Ala Asp Arg
 35 40 45
 Gln Arg His
 50

<210> 77
 <211> 584
 <212> PRT
 <213> Mus musculus

<400> 77
 Met Ser His Gln Pro Leu Ser Cys Leu Thr Glu Lys Gly Asp Ser Pro
 1 5 10 15
 Cys Glu Thr Pro Gly Asn Gly Pro Ser Asn Met Val His Pro Ser Leu
 20 25 30
 Asp Thr Phe Thr Pro Glu Glu Leu Leu Gln Gln Met Lys Glu Leu Leu
 35 40 45
 Val Glu Asn His Gln Leu Lys Glu Ala Met Lys Leu Asn Asn Gln Ala
 50 55 60
 Met Lys Gly Arg Phe Glu Glu Leu Ser Ala Trp Thr Glu Lys Gln Lys
 65 70 75 80
 Glu Glu Arg Leu Leu Phe Glu Met Gln Ser Lys Glu Val Lys Glu Arg
 85 90 95
 Leu Lys Ala Leu Thr His Glu Asn Glu Arg Leu Lys Glu Glu Leu Gly
 100 105 110
 Lys Phe Lys Glu Lys Ser Glu Lys Pro Leu Glu Asp Leu Thr Gly Gly
 115 120 125
 Tyr Arg Tyr Pro Arg Ala Leu Glu Glu Glu Val Glu Lys Leu Lys Thr
 130 135 140
 Gln Val Glu Gln Glu Val Glu His Leu Lys Ile Gln Val Met Arg Leu
 145 150 155 160
 Arg Ala Glu Lys Ala Asp Leu Leu Gly Ile Val Ser Glu Leu Gln Leu
 165 170 175
 Lys Leu Asn Ser Gly Gly Ser Ser Glu Asp Ser Phe Val Glu Ile Arg
 180 185 190
 Met Thr Glu Gly Glu Thr Glu Gly Ala Met Lys Glu Met Lys Asn Cys
 195 200 205
 Pro Thr Pro Thr Arg Thr Asp Pro Ile Ser Leu Ser Asn Cys Thr Glu
 210 215 220
 Asp Ala Arg Ser Cys Ala Glu Phe Glu Glu Leu Thr Val Ser Gln Leu
 225 230 235 240

Leu Leu Cys Leu Arg Glu Gly Asn Gln Lys Val Glu Arg Leu Glu Val
 245 250 255
 Ala Leu Arg Glu Ala Lys Glu Arg Ile Ser Asp Phe Glu Lys Lys Ala
 260 265 270
 Asn Gly His Ser Ser Thr Glu Lys Gln Thr Ala Arg Arg Ala Asp Arg
 275 280 285
 Glu Lys Glu Asp Lys Gly Gln Glu Ser Val Gly Ser Glu Val Glu Thr
 290 295 300
 Leu Ser Ile Gln Val Thr Ser Leu Phe Lys Glu Leu Gln Glu Ala His
 305 310 315 320
 Thr Lys Leu Ser Glu Ala Glu Leu Met Lys Lys Arg Leu Gln Glu Lys
 325 330 335
 Cys Gln Ala Leu Glu Arg Lys Asn Ser Ala Thr Pro Ser Glu Leu Asn
 340 345 350
 Glu Lys Gln Glu Leu Val Tyr Ser Asn Lys Lys Leu Glu Leu Gln Val
 355 360 365
 Glu Ser Met Arg Ser Glu Ile Lys Met Glu Gln Ala Lys Thr Glu Glu
 370 375 380
 Glu Lys Ser Arg Leu Ala Thr Leu Gln Ala Thr His Asn Lys Leu Leu
 385 390 395 400
 Gln Glu His Asn Lys Ala Leu Lys Thr Ile Glu Glu Leu Thr Lys Gln
 405 410 415
 Gln Ala Glu Lys Val Asp Lys Met Leu Leu Gln Glu Leu Ser Glu Lys
 420 425 430
 Leu Glu Leu Ala Glu Gln Ala Leu Ala Ser Lys Gln Leu Gln Met Asp
 435 440 445
 Glu Met Lys Gln Thr Leu Ala Lys Gln Glu Glu Asp Leu Glu Thr Met
 450 455 460
 Ala Val Leu Arg Ala Gln Met Glu Val Tyr Cys Ser Asp Phe His Ala
 465 470 475 480
 Glu Arg Ala Ala Arg Glu Lys Ile His Glu Glu Lys Glu Gln Leu Ala
 485 490 495
 Leu Gln Leu Ala Ile Leu Leu Lys Glu Asn Asn Asp Ile Glu Glu Gly
 500 505 510
 Gly Ser Arg Gln Ser Leu Met Glu Met Gln Cys Arg His Gly Ala Arg
 515 520 525
 Thr Ser Asp Ser Asp Gln Gln Thr Tyr Leu Phe Gln Arg Gly Ala Glu
 530 535 540
 Asp Arg Ser Trp Gln His Gly Gln Gln Pro Arg Ser Ile Pro Ile His
 545 550 555 560
 Ser Cys Pro Lys Cys Gly Glu Val Leu Pro Asp Ile Asp Thr Leu Gln
 565 570 575
 Ile His Val Met Asp Cys Ile Ile

580

<210> 78
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 78
 Leu Lys Thr Gln Val Glu Gln Glu Val Glu His Leu Lys Ile Gln Val
 1 5 10 15
 Met Arg Leu Arg Ala Glu Lys Ala Asp Leu Leu Gly Ile Val Ser Glu
 20 25 30
 Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser Ser Glu Asp Ser Phe Val
 35 40 45
 Glu Ile Arg Met Thr Glu Gly Glu Thr Glu Gly Ala Met Lys Glu Met
 50 55 60
 Lys Ser Cys Pro Thr Pro Thr Arg Thr Asp Pro Ile Ser Leu Ser Asn
 65 70 75 80
 Cys Thr Glu Asp Ala Arg Ser Cys Ala Glu Phe Glu Glu Leu Thr Val
 85 90 95
 Ser Gln Leu Leu Leu Cys Leu Arg Glu Gly Asn Gln
 100 105

<210> 79
 <211> 62
 <212> PRT
 <213> Mus musculus

<400> 79
 His Leu Lys Ile Gln Val Met Arg Leu Arg Ala Glu Lys Ala Asp Leu
 1 5 10 15
 Leu Gly Ile Val Ser Glu Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser
 20 25 30
 Ser Glu Asp Ser Phe Val Glu Ile Arg Met Thr Glu Gly Glu Thr Glu
 35 40 45
 Gly Ala Met Lys Glu Met Lys Asn Cys Pro Thr Pro Thr Arg
 50 55 60

<210> 80
 <211> 62
 <212> PRT
 <213> Mus musculus

<400> 80

His	Leu	Lys	Ile	Gln	Val	Met	Arg	Leu	Arg	Ala	Glu	Lys	Ala	Asp	Leu
1				5					10					15	
Leu	Gly	Ile	Val	Ser	Glu	Leu	Gln	Leu	Lys	Leu	Asn	Ser	Gly	Gly	Ser
			20					25					30		
Ser	Glu	Asp	Ser	Phe	Val	Glu	Ile	Arg	Met	Thr	Glu	Gly	Glu	Thr	Glu
		35					40					45			
Gly	Ala	Met	Lys	Glu	Met	Lys	Asn	Cys	Pro	Ala	Pro	Thr	Arg		
	50						55					60			

<210> 81

<211> 62

<212> PRT

<213> Mus musculus

<400> 81

His	Leu	Lys	Ile	Gln	Val	Met	Arg	Leu	Arg	Ala	Glu	Lys	Ala	Asp	Leu
1				5					10					15	
Leu	Gly	Ile	Val	Ser	Glu	Leu	Arg	Leu	Lys	Leu	Asn	Ser	Gly	Gly	Ser
			20					25					30		
Ser	Glu	Asp	Ser	Phe	Val	Glu	Ile	Arg	Met	Thr	Glu	Gly	Glu	Thr	Glu
		35					40					45			
Gly	Ala	Met	Lys	Glu	Met	Lys	Asn	Cys	Pro	Thr	Pro	Thr	Arg		
	50						55					60			

<210> 82

<211> 102

<212> PRT

<213> Mus musculus

<400> 82

Met	Leu	Ser	Arg	Leu	Gln	Glu	Leu	Arg	Lys	Glu	Glu	Glu	Thr	Leu	Leu
1				5					10					15	
Arg	Leu	Lys	Ala	Ala	Leu	His	Asp	Gln	Leu	Asn	Arg	Leu	Lys	Val	Glu
			20					25					30		
Glu	Leu	Ala	Leu	Gln	Ser	Met	Ile	Asn	Ser	Arg	Gly	Arg	Thr	Glu	Thr
		35					40					45			
Leu	Ser	Ser	Gln	Pro	Ala	Pro	Glu	Gln	Leu	Cys	Asp	Met	Ser	Leu	His
	50						55				60				
Val	Asp	Asn	Glu	Val	Thr	Ile	Asn	Gln	Thr	Thr	Leu	Lys	Leu	Ser	Thr
65					70				75					80	
Arg	Ser	Pro	Met	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu
				85				90						95	

Glu Glu Glu Ser Asp Ser
100

<210> 83
<211> 56
<212> PRT
<213> Mus musculus

<400> 83
Arg Cys Arg Gln Lys Arg Lys Leu Trp Val Ser Ser Leu Glu Lys Lys
1 5 10 15
Ala Glu Glu Leu Thr Ser Gln Asn Ile Gln Leu Ser Asn Glu Val Thr
20 25 30
Leu Leu Arg Asn Glu Val Ala Gln Leu Lys Gln Leu Leu Leu Ala His
35 40 45

Lys Asp Cys Pro Val Thr Ala Gln
50 55

<210> 84
<211> 79
<212> PRT
<213> Mus musculus

<400> 84
Arg Lys Trp Lys Gly Thr Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
1 5 10 15
Val Glu Thr Pro Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
20 25 30
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
35 40 45
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
50 55 60
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
65 70 75

<210> 85
<211> 413
<212> PRT
<213> Mus musculus

<400> 85
Met Gly Asp Asp Arg Pro Phe Val Cys Ser Ala Pro Gly Cys Gly Gln

1 5 10 15
 Arg Phe Thr Asn Glu Asp His Leu Ala Val His Lys His Lys His Glu
 20 25 30
 Met Thr Leu Lys Phe Gly Pro Ala Arg Thr Asp Ser Val Ile Ile Ala
 35 40 45
 Asp Gln Thr Pro Thr Pro Thr Arg Phe Leu Lys Asn Cys Glu Glu Val
 50 55 60
 Gly Leu Phe Asn Glu Leu Ala Ser Ser Phe Glu His Glu Phe Lys Lys
 65 70 75 80
 Ala Ser Asp Asp Asp Glu Lys Lys Gly Ala Ala Gly Pro Leu Asp Met
 85 90 95
 Ser Leu Pro Ser Thr Pro Asp Ile Lys Ile Lys Glu Glu Glu Pro Val
 100 105 110
 Glu Val Asp Ser Ser Pro Pro Asp Ser Pro Ala Ser Ser Pro Cys Ser
 115 120 125
 Pro Pro Leu Lys Glu Lys Glu Val Thr Thr Lys Pro Val Val Ile Ser
 130 135 140
 Thr Pro Thr Pro Thr Ile Val Arg Pro Gly Ser Leu Pro Leu His Leu
 145 150 155 160
 Gly Tyr Asp Pro Leu His Pro Thr Leu Pro Ser Pro Thr Ser Val Ile
 165 170 175
 Thr Gln Ala Pro Pro Ser Asn Arg Gln Ile Gly Ser Pro Thr Gly Ser
 180 185 190
 Leu Pro Leu Val Met His Leu Ala Asn Gly Gln Thr Met Pro Met Leu
 195 200 205
 Pro Gly Pro Pro Val Gln Met Pro Ser Val Ile Ser Leu Ala Arg Pro
 210 215 220
 Val Ser Met Val Pro Asn Ile Pro Gly Ile Pro Gly Pro Pro Val Asn
 225 230 235 240
 Asn Ser Gly Ser Ile Ser Pro Ser Gly His Pro Met Pro Ser Glu Ala
 245 250 255
 Lys Met Arg Leu Lys Ala Thr Leu Thr His Gln Val Ser Ser Ile Asn
 260 265 270
 Gly Gly Cys Gly Met Val Val Gly Thr Ala Ser Thr Met Val Thr Ala
 275 280 285
 Arg Pro Glu Gln Asn Gln Ile Leu Ile Gln His Pro Asp Ala Pro Ser
 290 295 300
 Pro Ala Gln Pro Gln Val Ser Pro Ala Gln Pro Thr Pro Ser Thr Gly
 305 310 315 320
 Gly Arg Arg Arg Arg Thr Val Asp Glu Asp Pro Asp Glu Arg Arg Gln
 325 330 335
 Arg Phe Leu Glu Arg Asn Arg Ala Ala Ala Ser Arg Cys Arg Gln Lys
 340 345 350

Arg Lys Leu Trp Val Ser Ser Leu Glu Lys Lys Ala Glu Glu Leu Thr
 355 360 365
 Ser Gln Asn Ile Gln Leu Ser Asn Glu Val Thr Leu Leu Arg Asn Glu
 370 375 380
 Val Ala Gln Leu Lys Gln Leu Leu Leu Ala His Lys Asp Cys Pro Val
 385 390 395 400
 Thr Ala Leu Gln Lys Lys Thr Gln Gly Tyr Leu Gly Lys
 405 410

<210> 86
 <211> 58
 <212> PRT
 <213> Mus musculus

<400> 86
 Arg Ala Ala Ala Ser Arg Cys Arg Gln Lys Arg Lys Leu Trp Val Ser
 1 5 10 15
 Ser Leu Glu Lys Lys Ala Glu Glu Leu Thr Ser Gln Asn Ile Gln Leu
 20 25 30
 Ser Asn Lys Val Thr Leu Leu Arg Asn Glu Val Ala Gln Leu Lys Gln
 35 40 45
 Leu Leu Leu Ala His Lys Asp Cys Pro Gly
 50 55

<210> 87
 <211> 1031
 <212> PRT
 <213> Mus musculus

<400> 87
 Met Thr Asn Pro Lys Gly Lys Arg Arg Gly Thr Gln Ser Met Phe Ser
 1 5 10 15
 Arg Pro Phe Arg Lys His Gly Val Val Ser Leu Ala Thr Tyr Met Arg
 20 25 30
 Ile Tyr Lys Lys Arg Asp Ile Val Asp Ile Lys Gly Met Gly Thr Val
 35 40 45
 Gln Lys Gly Met Pro Cys Lys Cys Tyr His Gly Lys Thr Gly Arg Val
 50 55 60
 Tyr Asn Val Thr Gln His Ala Met Gly Ile Ile Val Asn Lys Gln Val
 65 70 75 80
 Lys Gly Lys Ile Leu Ala Lys Arg Ile Asn Val Gln Ile Glu His Ile
 85 90 95
 Lys His Ser Lys Ser Arg Asp Gly Phe Leu Lys Gln Gly Glu Ala Ala

100	105	110
His Phe Glu Tyr Leu Leu Tyr Pro Leu His Ser Ala Ser Ile Thr Gly		
115	120	125
Leu Ala Thr Cys Ile Arg Lys Pro Leu Ile Ala Thr Cys Ser Leu Asp		
130	135	140
Arg Ser Val Arg Ile Trp Asn Tyr Glu Ser Asn Ser Ser Cys Cys Lys		
145	150	155
Ala Leu Arg Glu Asp Leu Trp Leu Leu Leu Leu Phe His Ile Thr Ala		
165	170	175
Pro Ala Thr Leu Ser Ser Pro Pro Val Ile Phe Phe Cys Thr Leu Glu		
180	185	190
Leu Tyr Lys Glu Tyr Gln Glu Glu Ala Tyr Thr Val Ser Leu His Pro		
195	200	205
Ser Gly His Tyr Ile Val Val Gly Phe Ala Asp Lys Leu Arg Leu Met		
210	215	220
Asn Leu Leu Ile Asp Asp Ile Arg Ser Phe Lys Glu Tyr Ser Val Arg		
225	230	235
Gly Cys Lys Glu Cys Ala Phe Ser Asn Gly Gly His Leu Phe Ala Ala		
245	250	255
Val Asn Gly Asn Val Ile His Ile Phe Thr Thr Thr Asn Leu Glu Asn		
260	265	270
Ile Asn Asn Leu Lys Gly His Thr Gly Lys Arg Glu Thr Glu Cys Val		
275	280	285
Leu Lys Val Cys Ser Tyr Asn Ser Val Thr Ile Ser Pro Asp Gly Lys		
290	295	300
Val Ile Phe Ala Val Gly Ser Asp Gln Thr Leu Lys Glu Ile Ala Asp		
305	310	315
Ser Leu Ile Leu Arg Glu Ile Pro Ala Phe Asp Val Val Tyr Thr Ala		
325	330	335
Ile Thr Ile Ser His Ser Gly Arg Met Ile Phe Val Gly Thr Ser Val		
340	345	350
Gly Thr Ile Arg Ala Met Lys Tyr Pro Leu Pro Leu Gln Arg Glu Phe		
355	360	365
Asn Glu Tyr Gln Ala His Ala Gly Pro Val Thr Lys Ile Leu Leu Thr		
370	375	380
Phe Asp Asp Gln Phe Leu Leu Thr Val Ser Glu Asp Gly Cys Leu Phe		
385	390	395
Thr Trp Lys Val Phe Asp Lys Glu Gly Arg Gly Ile Lys Arg Glu Arg		
405	410	415
Glu Val Gly Phe Ala Glu Glu Val Leu Val Thr Lys Thr Asp Met Glu		
420	425	430
Glu Lys Ile Leu His Arg Asn Leu Ala Thr Glu Phe Arg Arg Pro Met		
435	440	445

Ser Lys His Leu Glu Cys Pro Thr Ser Glu Thr Gly Pro Leu Thr Thr
 450 455 460
 Ile Asn Ile Ser Pro Val Gln Pro Arg Pro Trp Gly His Val Leu Thr
 465 470 475 480
 Cys Arg Thr Pro Val Ser Thr Asp Ser Ala Val Ala Ser Thr Arg Gly
 485 490 495
 Ser Val Asp Ser Ala Val Lys Pro Asp Arg Ser Thr Pro Thr Gln Glu
 500 505 510
 Val Arg Ile Pro Pro Lys Pro Ala Ser Gly Val His Thr Arg Cys Gln
 515 520 525
 Leu Gly Val Gln Lys Gln Met Glu His Val Ser Val Val Met Glu Val
 530 535 540
 Arg Glu Thr Asn Arg Gln Arg Gln Gly Gly Ala Arg Asn Val Ile
 545 550 555 560
 Lys Ala Gln Ile Met Leu Glu Leu Lys Thr Arg Val Glu Glu Leu Lys
 565 570 575
 Met Glu Asn Glu Tyr Gln Leu Arg Leu Lys Asp Met Asn Tyr Ser Glu
 580 585 590
 Lys Ile Lys Glu Leu Thr Asp Lys Phe Ile Gln Glu Met Glu Ser Leu
 595 600 605
 Lys Thr Lys Asn Gln Val Leu Lys Thr Glu Lys Glu Lys Gln Asp Ile
 610 615 620
 Ser His Arg Glu His Leu Glu Asp Leu Ile Glu Arg Gln Ser Arg Glu
 625 630 635 640
 Leu Gln Asp Leu Glu Cys Cys Asn Asn Gln Lys Leu Leu Leu Glu Tyr
 645 650 655
 Glu Lys Tyr Gln Glu Leu Gln Leu Lys Ser Gln Arg Met Gln Glu Glu
 660 665 670
 Tyr Glu Lys Gln Leu Arg Asp Asn Asp Glu Thr Lys Ser Gln Ala Leu
 675 680 685
 Glu Glu Leu Thr Glu Phe Tyr Glu Ala Lys Leu Gln Glu Lys Thr Gly
 690 695 700
 Leu Leu Glu Glu Ala Leu Ser Thr Ala Ala Ser Pro Pro Leu Pro Ser
 705 710 715 720
 Ala His Val Leu Ser Pro Phe Pro Thr Leu Ser Gln Ala Gln Glu Asp
 725 730 735
 Val Arg Gln Gln Leu Arg Glu Phe Glu Glu Thr Lys Lys Gln Ile Glu
 740 745 750
 Glu Asp Glu Asp Arg Glu Ile Gln Asp Ile Lys Thr Lys Tyr Glu Arg
 755 760 765
 Lys Leu Arg Asp Glu Lys Glu Ser Asn Leu Arg Leu Lys Gly Glu Thr
 770 775 780
 Gly Ile Met Arg Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu

785 790 795 800
 Arg Thr Asn Asp Ile Glu Leu Leu Lys Thr Glu Gln Val Lys Leu Gln
 805 810 815
 Gly Val Ile Arg Ser Leu Glu Lys Asp Ile Gln Gly Leu Lys Arg Glu
 820 825 830
 Ile Gln Glu Arg Asp Glu Thr Ile Gln Asp Lys Glu Lys Arg Ile Tyr
 835 840 845
 Asp Leu Lys Lys Lys Asn Gln Glu Leu Glu Lys Phe Lys Phe Val Leu
 850 855 860
 Asp Tyr Lys Ile Lys Glu Leu Lys Lys Gln Ile Glu Pro Arg Glu Asn
 865 870 875 880
 Glu Ile Lys Val Met Lys Glu Gln Ile Gln Glu Asn Pro Val Asn His
 885 890 895
 Trp Leu Arg Ser Arg Glu Arg Glu Cys Val Thr Gln Pro Arg His Leu
 900 905 910
 Arg Leu Pro Ala Pro Gln Asn Lys Leu Asp Gly Asn Leu Ala Cys Gly
 915 920 925
 Pro Val Arg Gly Arg Leu Cys His Ser Asp Ala Thr Ser Gly Ala Leu
 930 935 940
 Asn Val Gln Gly Ile Leu Cys Leu Phe His Leu Pro Phe Pro Cys Asp
 945 950 955 960
 Arg Thr Pro Ser Phe Phe Pro Gly Glu Ala Cys Leu Leu Val Phe Ser
 965 970 975
 Leu Leu Ile Asp Val Leu Cys Arg Pro Thr Ser Asp Val Pro Val Ala
 980 985 990
 Ala Gly Asp Phe Leu Pro Cys Gly Gly Pro Leu His Leu Pro Pro Glu
 995 1000 1005
 Leu His His Leu Thr Val Ile Arg Thr Asn Ala Ser Pro Gln Lys
 1010 1015 1020
 Cys Tyr Pro Pro Thr Ser Pro Leu
 1025 1030

<210> 88
 <211> 70
 <212> PRT
 <213> Mus musculus

<400> 88
 Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu Arg Thr Asn Asp
 1 5 10 15
 Ile Glu Leu Leu Lys Ser Glu Arg Met Lys Leu Gln Gly Ile Ile Arg
 20 25 30
 Ser Leu Glu Lys Asp Ile Gln Gly Leu Lys Arg Glu Ile Gln Glu Arg

35 40 45
 Asp Glu Thr Ile Gln Asp Met Glu Lys Leu Asp Tyr Lys Asp Asp Tyr
 50 55 60
 Asn Ser Asn Leu Glu Ile
 65 70

$\langle 210 \rangle$	89
$\langle 211 \rangle$	56
$\langle 212 \rangle$	PRT
$\langle 213 \rangle$	Mus musculus

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<400> 89
Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu Arg Thr Asn Asp
1          5          10          15
Ile Glu Leu Leu Lys Ser Glu Arg Met Lys Leu Gln Gly Ile Ile Arg
          20          25          30
Ser Leu Glu Lys Asp Ile Gln Gly Leu Lys Arg Glu Ile Gln Glu Arg
          35          40          45
Asp Glu Thr Ile Gln Asp Met Glu
          50          55

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<210>	90
<211>	217
<212>	PRT
<213>	Mus musculus

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<400> 90
Met Glu Val Glu Asn Glu Ala His Cys Cys Pro Gly Ser Ser Ser Gly
1          5          10          15
Gly Ser Arg Glu Tyr Lys Val Val Met Leu Gly Ala Gly Gly Val Gly
20          25          30
Lys Ser Ala Val Thr Met Gln Phe Ile Ser His Gln Phe Pro Asp Tyr
35          40          45
His Asp Pro Thr Ile Glu Asp Ala Tyr Lys Thr Gln Val Arg Ile Asp
50          55          60
Asn Glu Pro Ala Tyr Leu Asp Ile Leu Asp Thr Ala Gly Gln Ala Glu
65          70          75          80
Phe Thr Ala Met Arg Glu Gln Tyr Met Arg Gly Gly Glu Gly Phe Ile
85          90          95
Ile Cys Tyr Ser Val Thr Asp Arg Gln Ser Phe Gln Glu Ala Ala Lys
100          105          110
Phe Lys Glu Leu Ile Phe Gln Val Arg His Thr Tyr Glu Ile Pro Leu
115          120          125

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Val Leu Val Gly Asn Lys Ile Asp Leu Glu Gln Phe Arg Gln Val Ser
 130 135 140
 Thr Glu Glu Gly Met Asn Leu Ala Arg Asp Tyr Asn Cys Ala Phe Phe
 145 150 155 160
 Glu Thr Ser Ala Ala Leu Arg Phe Gly Ile Asp Asp Ala Phe Gln Gly
 165 170 175
 Leu Val Arg Glu Ile Arg Arg Lys Glu Ser Met Leu Ser Leu Val Glu
 180 185 190
 Arg Lys Leu Lys Arg Lys Asp Ser Leu Trp Lys Lys Ile Lys Ala Ser
 195 200 205
 Leu Lys Lys Lys Arg Glu Asn Met Leu
 210 215

<210> 91
 <211> 50
 <212> PRT
 <213> Mus musculus

<400> 91
 Ala Ala Leu Arg Phe Gly Ile Asp Asp Ala Leu Gln Gly Leu Val Arg
 1 5 10 15
 Glu Ile Arg Arg Lys Glu Ser Met Leu Pro Leu Val Glu Arg Lys Leu
 20 25 30
 Lys Arg Lys Asp Ser Leu Trp Lys Lys Ile Lys Ala Ser Leu Lys Lys
 35 40 45
 Lys Arg
 50

<210> 92
 <211> 140
 <212> PRT
 <213> Mus musculus

<400> 92
 Gly Ala Thr Val Ile Thr Asn Leu Leu Ser Ala Ile Pro Tyr Ile Gly
 1 5 10 15
 Thr Thr Leu Val Glu Trp Ile Trp Gly Gly Phe Ser Val Asp Lys Ala
 20 25 30
 Thr Leu Thr Arg Phe Phe Ala Phe His Phe Ile Leu Pro Phe Ile Ile
 35 40 45
 Ala Ala Leu Ala Ile Val His Leu Leu Phe Leu His Glu Thr Gly Ser
 50 55 60
 Asn Asn Pro Thr Gly Leu Asn Ser Asp Ala Asp Lys Ile Pro Phe His

65		70		75		80									
Pro	Tyr	Tyr	Thr	Ile	Lys	Asp	Ile	Leu	Gly	Ile	Leu	Ile	Met	Phe	Leu
				85					90					95	
Ile	Leu	Met	Thr	Leu	Val	Leu	Phe	Phe	Pro	Asp	Met	Leu	Gly	Asp	Pro
			100					105					110		
Asp	Asn	Tyr	Met	Pro	Ala	Asn	Pro	Leu	Asn	Thr	Pro	Pro	His	Ile	Lys
		115					120					125			
Pro	Glu	Trp	Tyr	Phe	Leu	Phe	Ala	Tyr	Ala	Ile	Leu				
	130					135					140				

<210> 93
 <211> 41
 <212> PRT
 <213> Mus musculus

<400> 93
Ser Asp Ala Asp Lys Ile Pro Phe His Pro Tyr Tyr Thr Ile Lys Asn
1 5 10 15
Ile Leu Gly Ile Leu Ile Ile Phe Leu Ile Leu Ile Thr Leu Val Leu
20 25 30
Phe Phe Pro Asp Ile Leu Gly Asp Pro
35 40

<210> 94
 <211> 311
 <212> PRT
 <213> Mus musculus

<400> 94
Met Lys Ala Leu Trp Ala Val Leu Leu Val Thr Leu Leu Thr Gly Cys
1 5 10 15
Leu Ala Glu Gly Glu Pro Glu Val Thr Asp Gln Leu Glu Trp Gln Ser
20 25 30
Asn Gln Pro Trp Glu Gln Ala Leu Asn Arg Phe Trp Asp Tyr Leu Arg
35 40 45
Trp Val Gln Thr Leu Ser Asp Gln Val Gln Glu Glu Leu Gln Ser Ser
50 55 60
Gln Val Thr Gln Glu Leu Thr Ala Leu Met Glu Asp Thr Met Thr Glu
65 70 75 80
Val Lys Ala Tyr Lys Lys Glu Leu Glu Glu Gln Leu Gly Pro Val Ala
85 90 95
Glu Glu Thr Arg Ala Arg Leu Gly Lys Glu Val Gln Ala Ala Gln Ala
100 105 110

Arg Leu Gly Ala Asp Met Glu Asp Leu Arg Asn Arg Leu Gly Gln Tyr
 115 120 125
 Arg Asn Glu Val His Thr Met Leu Gly Gln Ser Thr Glu Glu Ile Arg
 130 135 140
 Ala Arg Leu Ser Thr His Leu Arg Lys Met Arg Lys Arg Leu Met Arg
 145 150 155 160
 Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala Val Tyr Lys Ala Gly Ala
 165 170 175
 Arg Glu Gly Ala Glu Arg Gly Val Ser Ala Ile Arg Glu Arg Leu Gly
 180 185 190
 Pro Leu Val Glu Gln Gly Arg Gln Arg Thr Ala Asn Leu Gly Ala Gly
 195 200 205
 Ala Ala Gln Pro Leu Arg Asp Arg Ala Gln Ala Phe Gly Asp Arg Ile
 210 215 220
 Arg Gly Arg Leu Glu Glu Val Gly Asn Gln Ala Arg Asp Arg Leu Glu
 225 230 235 240
 Glu Val Arg Glu His Met Glu Glu Val Arg Ser Lys Met Glu Glu Gln
 245 250 255
 Thr Gln Gln Ile Arg Leu Gln Ala Glu Ile Phe Gln Ala Arg Leu Lys
 260 265 270
 Gly Trp Phe Glu Pro Ile Val Glu Asp Met His Arg Gln Trp Ala Asn
 275 280 285
 Leu Met Glu Lys Ile Gln Ala Ser Val Ala Thr Asn Pro Ile Ile Thr
 290 295 300
 Pro Val Ala Gln Glu Asn Gln
 305 310

<210> 95
 <211> 31
 <212> PRT
 <213> Mus musculus

<400> 95
 Thr Glu Val Lys Ala Tyr Lys Lys Glu Leu Glu Glu Gln Leu Gly Pro
 1 5 10 15
 Val Ala Glu Glu Thr Arg Ala Arg Leu Gly Lys Glu Glu Gln Gly
 20 25 30

<210> 96
 <211> 695
 <212> PRT
 <213> Mus musculus

<400> 96

Met Leu Pro Ser Leu Ala Leu Leu Leu Leu Ala Ala Trp Thr Val Arg
 1 5 10 15
 Ala Leu Glu Val Pro Thr Asp Gly Asn Ala Gly Leu Leu Ala Glu Pro
 20 25 30
 Gln Ile Ala Met Phe Cys Gly Lys Leu Asn Met His Met Asn Val Gln
 35 40 45
 Asn Gly Lys Trp Glu Ser Asp Pro Ser Gly Thr Lys Thr Cys Ile Gly
 50 55 60
 Thr Lys Glu Gly Ile Leu Gln Tyr Cys Gln Glu Val Tyr Pro Glu Leu
 65 70 75 80
 Gln Ile Thr Asn Val Val Glu Ala Asn Gln Pro Val Thr Ile Gln Asn
 85 90 95
 Trp Cys Lys Arg Gly Arg Lys Gln Cys Lys Thr His Thr His Ile Val
 100 105 110
 Ile Pro Tyr Arg Cys Leu Val Gly Glu Phe Val Ser Asp Ala Leu Leu
 115 120 125
 Val Pro Asp Lys Cys Lys Phe Leu His Gln Glu Arg Met Asp Val Cys
 130 135 140
 Glu Thr His Leu His Trp His Thr Val Ala Lys Glu Thr Cys Ser Glu
 145 150 155 160
 Lys Ser Thr Asn Leu His Asp Tyr Gly Met Leu Leu Pro Cys Gly Ile
 165 170 175
 Asp Lys Phe Arg Gly Val Glu Phe Val Cys Cys Pro Leu Ala Glu Glu
 180 185 190
 Ser Asp Ser Val Asp Ser Ala Asp Ala Glu Glu Asp Asp Ser Asp Val
 195 200 205
 Trp Trp Val Gly Ala Asp Thr Asp Tyr Ala Asp Gly Gly Glu Asp Lys
 210 215 220
 Val Val Glu Val Ala Glu Glu Glu Glu Val Ala Asp Val Glu Glu Glu
 225 230 235 240
 Glu Ala Asp Asp Asp Glu Asp Val Glu Asp Gly Asp Glu Val Glu Glu
 245 250 255
 Glu Ala Glu Glu Pro Tyr Glu Glu Ala Thr Glu Arg Thr Thr Ser Thr
 260 265 270
 Ala Thr Thr Thr Thr Thr Thr Thr Glu Ser Val Glu Glu Val Val Arg
 275 280 285
 Val Pro Thr Thr Ala Ala Ser Thr Pro Asp Ala Val Asp Lys Tyr Leu
 290 295 300
 Glu Thr Pro Gly Asp Glu Asn Glu His Ala His Phe Gln Lys Ala Lys
 305 310 315 320
 Glu Arg Leu Glu Ala Lys His Arg Glu Arg Met Ser Gln Val Met Arg
 325 330 335

Glu Trp Glu Glu Ala Glu Arg Gln Ala Lys Asn Leu Pro Lys Ala Asp		
340	345	350
Lys Lys Ala Val Ile Gln His Phe Gln Glu Lys Val Glu Ser Leu Glu		
355	360	365
Gln Glu Ala Ala Asn Glu Arg Gln Gln Leu Val Glu Thr His Met Ala		
370	375	380
Arg Val Glu Ala Met Leu Asn Asp Arg Arg Arg Leu Asp Leu Glu Asn		
385	390	395
Tyr Ile Ile Ala Leu Gln Ala Val Pro Pro Arg Pro His His Val Phe		
405	410	415
Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His		
420	425	430
Thr Leu Lys His Phe Glu His Val Arg Met Val Asp Pro Lys Lys Ala		
435	440	445
Thr Gln Ile Arg Ser Gln Val Met Thr His Leu Arg Val Ile Tyr Glu		
450	455	460
Arg Met Asn Gln Ser Leu Ser Leu Leu Tyr Asn Val Pro Ala Val Ala		
465	470	475
Glu Glu Ile Gln Asp Glu Val Asp Glu Leu Leu Gln Lys Glu Gln Asn		
485	490	495
Tyr Ser Asp Asp Val Leu Ala Asn Met Ile Ser Glu Pro Arg Ile Ser		
500	505	510
Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu Thr Glu Thr Lys Thr Thr		
515	520	525
Val Glu Leu Leu Pro Val Asn Gly Glu Phe Ser Leu Asp Asp Leu Gln		
530	535	540
Pro Trp His Pro Phe Gly Val Asp Ser Val Pro Ala Asn Thr Glu Asn		
545	550	555
Glu Val Glu Pro Val Asp Ala Arg Pro Ala Ala Asp Arg Gly Leu Thr		
565	570	575
Thr Arg Pro Gly Ser Gly Leu Thr Asn Ile Lys Thr Glu Glu Ile Ser		
580	585	590
Glu Val Lys Met Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val		
595	600	605
Arg His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys		
610	615	620
Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val		
625	630	635
Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile		
645	650	655
His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg		
660	665	670
His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys		

675	680	685
Phe Phe Glu Gln Met Gln Asn		
690	695	

<210> 97
 <211> 68
 <212> PRT
 <213> Mus musculus

<400> 97
 Ser Glu Pro Arg Ile Ser Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu
 1 5 10 15
 Thr Glu Thr Lys Thr Thr Val Glu Leu Leu Pro Val Asn Gly Glu Phe
 20 25 30
 Ser Leu Asp Asp Leu Gln Pro Trp His Pro Ser Gly Val Asp Ser Val
 35 40 45
 Pro Ala Asn Thr Glu Asn Glu Val Glu Pro Val Asp Ala Arg Pro Ala
 50 55 60
 Ala Asp Arg Gly
 65

<210> 98
 <211> 983
 <212> PRT
 <213> Mus musculus

<400> 98
 Met Lys Ala Gln Gln Ala Met Asp Lys Tyr Glu Gly Asp Ser Lys Ala
 1 5 10 15
 Arg Glu Thr Arg Ser Thr Ala Ala Met Val Gly Trp Arg Ser Asp Arg
 20 25 30
 Gly Leu Val Thr Cys Thr Arg Leu Arg Met Gln Asn Gly Ser Ser Leu
 35 40 45
 Lys Ala Phe Arg Ser Arg Val Gly Lys Trp Gly Glu Pro Ser Ser Arg
 50 55 60
 Ser His Lys Val Leu Lys Thr Ser Glu Thr Ser Gln Asp Ile Gln Lys
 65 70 75 80
 Val Ser Arg Glu Glu Ser Pro Ser Gln Leu Thr Ser Ala Val Pro Ala
 85 90 95
 Gln Arg Asn Cys Gln Pro Gly Ser Ala Ala Val Ile Asn Met Leu Arg
 100 105 110
 Gly Gly Gly Gly Val Arg Ser Pro Trp Thr Asp His His Ile Arg Gln
 115 120 125

Arg Thr Asp His His Ile Arg Gln Pro Leu Phe Pro Ser Arg Arg Ser
 130 135 140
 Pro Gln Glu Asn Glu Asp Asp Asp Asp Tyr Gln Met Phe Val Pro
 145 150 155 160
 Ser Phe Ser Ser Ser Asp Leu Asn Ser Thr Arg Leu Cys Glu Glu Asn
 165 170 175
 Ala Ser Ser Arg Pro Cys Ser Trp His Leu Gly Leu Ile Glu Pro Thr
 180 185 190
 Glu Ile Ser Ser Ser Gly His Arg Ile Val Arg Arg Ala Ser Ser Ala
 195 200 205
 Gly Glu Ser Asn Ala Cys Pro Pro Glu Val Arg Ile Arg Asp Cys Asp
 210 215 220
 Asp Ser Gln Tyr Cys Pro Gly Arg Gln Leu Gln Asn Ser Pro Arg Pro
 225 230 235 240
 Gly Gly Glu Arg Gly Met Thr Pro Tyr Gly Ser Ser Val Glu Leu Thr
 245 250 255
 Ile Asp Asp Ile Asp His Val Tyr Asp Asn Ile Ser Phe Glu Asp Leu
 260 265 270
 Lys Leu Met Val Ala Lys Arg Asp Glu Thr Glu Cys Ser Phe Ser Lys
 275 280 285
 Pro Ser Arg Asp Ser Val Arg Pro Lys Ser Thr Pro Glu Leu Ala Phe
 290 295 300
 Ser Lys Arg Gln Val Ser His Ser Thr Ser Ser Leu His Ser Arg Lys
 305 310 315 320
 Glu Ala Gly Leu Gly Gly Gln Glu Ala Ser Thr Gln Ser Val His Glu
 325 330 335
 His Gln Glu Val Glu Glu Asn Ile Tyr Asp Thr Ile Gly Leu Pro Asp
 340 345 350
 Pro Pro Ser Met Asn Leu Asn His Ser Ser Leu His Gln Pro Lys Arg
 355 360 365
 Ser Thr Phe Leu Gly Leu Glu Ala Asp Phe Ala Cys Cys Asp Ser Leu
 370 375 380
 Arg Pro Phe Val Ser Gln Asp Ser Leu Gln Phe Ser Glu Asp Asp Ile
 385 390 395 400
 Ser Tyr His Gln Gly Pro Ser Asp Thr Glu Tyr Leu Ser Leu Leu Tyr
 405 410 415
 Asp Ser Pro Arg Cys Asn Leu Pro Ile Ala Asp Lys Ala Leu Ser Asp
 420 425 430
 Lys Leu Ser Glu Glu Val Asp Glu Ile Trp Asn Asp Leu Glu Asn Tyr
 435 440 445
 Ile Lys Lys Asn Glu Asp Lys Ser Arg Asp Arg Leu Leu Ala Ala Phe
 450 455 460
 Pro Val Ser Lys Asp Asp Ala Pro Glu Arg Leu Tyr Val Asp Ser Thr

465		470		475		480									
His	Glu	Leu	Gly	Arg	Asp	Thr	Gly	His	Ala	Thr	Ser	Met	Leu	Ala	Leu
			485						490					495	
Pro	Thr	Ser	Gln	Thr	Phe	Leu	Leu	Pro	Gly	Lys	Ser	Arg	Val	Val	Arg
			500						505					510	
Ala	Ser	Arg	Ala	Asn	Cys	Ser	Leu	Asp	Asn	Asp	Ile	Ile	Ser	Thr	Glu
		515						520					525		
Gly	Ser	Phe	Leu	Ser	Leu	Asn	Gln	Leu	Ser	Leu	Ala	Ser	Asp	Gly	Pro
	530						535					540			
Pro	Val	Asp	Asn	Pro	Tyr	Asp	Leu	Ala	Asn	Cys	Ser	Leu	Pro	Gln	Thr
545					550					555					560
Asp	Pro	Glu	Asn	Pro	Asp	Pro	Gly	Met	Glu	Val	Thr	Asp	Lys	Thr	Lys
				565					570					575	
Ser	Arg	Val	Phe	Met	Met	Ala	Arg	Gln	Tyr	Ser	Gln	Lys	Ile	Lys	Lys
			580						585					590	
Val	Asn	Gln	Ile	Leu	Lys	Val	Lys	Ser	Pro	Glu	Leu	Glu	Gln	Pro	Pro
		595						600					605		
Ser	Ser	Gln	His	Arg	Pro	Ser	His	Lys	Asp	Leu	Val	Ala	Ile	Leu	Glu
	610						615					620			
Glu	Lys	Arg	Gln	Gly	Gly	Pro	Ala	Ile	Gly	Ala	Arg	Ile	Ala	Glu	Tyr
625					630					635					640
Ser	Gln	Leu	Tyr	Asp	Gln	Ile	Val	Phe	Arg	Glu	Thr	Pro	Leu	Lys	Ala
				645					650					655	
Gln	Lys	Asp	Gly	Trp	Ala	Ser	Pro	Gln	Gly	Pro	Thr	Leu	His	Arg	Pro
			660						665					670	
Val	Ser	Pro	Pro	Gln	Ala	Gln	Gly	Ala	Gly	Glu	Asp	Trp	Leu	Trp	His
		675						680					685		
Ser	Pro	Tyr	Ser	Asn	Gly	Glu	Leu	Ala	Asp	Phe	Ser	Pro	Gln	Thr	Glu
	690						695				700				
Gln	Asp	Ser	Lys	Ser	Lys	Tyr	Pro	Ile	Thr	Leu	Glu	Ser	Thr	Thr	Lys
705					710						715				720
Ile	Arg	Pro	Arg	Gln	Leu	Ser	Gly	Ala	Cys	Ser	Val	Pro	Ser	Leu	Gln
				725					730					735	
Val	Ser	Asp	Pro	Leu	Leu	Gly	Ser	Val	Gln	Gln	Arg	Cys	Ser	Val	Val
			740						745				750		
Val	Ser	Gln	Pro	His	Lys	Glu	Asn	Ser	Gly	Gln	Ser	Pro	Leu	Tyr	Asn
		755					760					765			
Ser	Leu	Gly	Arg	Lys	Ala	Ile	Ser	Ala	Lys	Pro	Gln	Pro	Tyr	Ser	Arg
	770						775				780				
Pro	Gln	Ser	Ser	Ser	Ser	Ile	Leu	Ile	Asn	Lys	Ser	Leu	Asp	Ser	Ile
785					790					795					800
Asn	Tyr	Pro	Ser	Glu	Thr	Glu	Thr	Lys	Gln	Leu	Leu	Ser	Ser	Gln	Lys
				805					810					815	

Ser Pro Arg Gly Ala Ser Gln Gln Asp Leu Pro Ser Gly Leu Ala Asn
 820 825 830
 Ser Cys Gln Gln Asp Arg Gly Lys Arg Ser Asp Leu Thr Leu Gln Asp
 835 840 845
 Ser Gln Lys Val Leu Val Val Asn Arg Asn Leu Pro Leu Ser Ala Gln
 850 855 860
 Ile Ala Thr Gln Asn Tyr Phe Cys Asn Phe Lys Asp Pro Glu Gly Asp
 865 870 875 880
 Glu Asp Asp Tyr Val Glu Ile Lys Ser Glu Glu Asp Glu Val Arg Leu
 885 890 895
 Asp Leu Ser Pro Arg Arg Gly Arg Lys Ser Asp Pro Gln Thr Pro Asp
 900 905 910
 Pro Asp Cys Ser Asp Ser Ile Cys Ser His Ser Thr Pro Tyr Ser Leu
 915 920 925
 Lys Glu Pro Val Ser Gly Arg Leu Gly Leu Pro Pro Tyr Leu Thr Ala
 930 935 940
 Cys Lys Asp Ser Asp Lys Leu Asn Asp Tyr Leu Trp Arg Gly Pro Ser
 945 950 955 960
 Pro Asn Gln Gln Asn Ile Val Gln Ser Leu Arg Glu Lys Phe Gln Cys
 965 970 975
 Leu Ser Ser Ser Ser Phe Ala
 980

<210> 99
 <211> 46
 <212> PRT
 <213> Mus musculus

<400> 99
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 Ile Leu Lys Val Lys Ser Pro Glu Leu Glu Gln Pro Pro Ser Ser Gln
 20 25 30
 His Arg Pro Ser His Lys Asp Leu Ala Ala Ile Leu Glu Lys
 35 40 45

<210> 100
 <211> 412
 <212> PRT
 <213> Mus musculus

<400> 100
 Met Ala Asn Val Ala Asp Thr Lys Leu Tyr Asp Ile Leu Gly Val Pro

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Pro Gly Ala Ser Glu Asn Glu Leu Lys Lys Ala Tyr Arg Lys Leu Ala			
20	25	30	
Lys Glu Tyr His Pro Asp Lys Asn Pro Asn Ala Gly Asp Lys Phe Lys			
35	40	45	
Glu Ile Ser Phe Ala Tyr Glu Val Leu Ser Asn Pro Glu Lys Arg Glu			
50	55	60	
Leu Tyr Asp Arg Tyr Gly Glu Gln Gly Leu Arg Glu Gly Ser Gly Gly			
65	70	75	80
Gly Gly Gly Met Asp Asp Ile Phe Ser His Ile Phe Gly Gly Gly Leu			
85	90	95	
Phe Gly Phe Met Gly Asn Gln Ser Arg Ser Arg Asn Gly Arg Arg Arg			
100	105	110	
Gly Glu Asp Met Met His Pro Leu Lys Val Ser Leu Glu Asp Leu Tyr			
115	120	125	
Asn Gly Lys Thr Thr Lys Leu Gln Leu Ser Lys Asn Val Leu Cys Ser			
130	135	140	
Ala Cys Ser Gly Gln Gly Gly Lys Ser Gly Ala Val Gln Lys Cys Ser			
145	150	155	160
Ala Cys Arg Gly Arg Gly Val Arg Ile Met Ile Arg Gln Leu Ala Pro			
165	170	175	
Gly Met Val Gln Gln Met Gln Ser Val Cys Ser Asp Cys Asn Gly Glu			
180	185	190	
Gly Glu Val Ile Asn Glu Lys Asp Arg Cys Lys Lys Cys Glu Gly Lys			
195	200	205	
Lys Val Ile Lys Glu Val Lys Ile Leu Glu Val His Val Asp Lys Gly			
210	215	220	
Met Lys His Gly Gln Arg Ile Thr Phe Thr Gly Glu Ala Asp Gln Ala			
225	230	235	240
Pro Gly Val Glu Pro Gly Asp Ile Val Leu Leu Leu Gln Glu Lys Glu			
245	250	255	
His Glu Val Phe Gln Arg Asp Gly Asn Asp Leu His Met Thr Tyr Lys			
260	265	270	
Ile Gly Leu Val Glu Ala Leu Cys Gly Phe Gln Phe Thr Phe Lys His			
275	280	285	
Leu Asp Ala Arg Gln Ile Val Val Lys Tyr Pro Pro Gly Lys Val Ile			
290	295	300	
Glu Pro Gly Cys Val Arg Val Val Arg Gly Glu Gly Met Pro Gln Tyr			
305	310	315	320
Arg Asn Pro Phe Glu Lys Gly Asp Leu Tyr Ile Lys Phe Asp Val Gln			
325	330	335	
Phe Pro Glu Asn Asn Trp Ile Asn Pro Asp Lys Leu Ser Glu Leu Glu			
340	345	350	

Asp Leu Leu Pro Ser Arg Pro Glu Val Pro Asn Val Ile Gly Glu Thr
 355 360 365
 Glu Glu Val Glu Leu Gln Glu Phe Asp Ser Thr Arg Gly Ser Gly Gly
 370 375 380
 Gly Gln Arg Arg Glu Ala Tyr Asn Asp Ser Ser Asp Glu Glu Ser Ser
 385 390 395 400
 Ser His His Gly Pro Gly Val Gln Cys Ala His Gln
 405 410

<210> 101
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 101
 Leu Ser Asn Pro Glu Lys Arg Glu Leu Tyr Asp Arg Tyr Gly Glu Gln
 1 5 10 15
 Gly Leu Arg Glu Gly Ser Gly Gly Gly
 20 25

<210> 102
 <211> 29
 <212> PRT
 <213> Mus musculus

<400> 102
 Ala His Ser Phe Ser Val Phe Arg Leu Pro Ser Trp Trp Ile Val Gly
 1 5 10 15
 Trp Trp Ser Lys Gly Gly Val Gly Ser Asp Leu Glu Met
 20 25

<210> 103
 <211> 35
 <212> PRT
 <213> Mus musculus

<400> 103
 Pro Asp Ile Lys His Pro Gly Asn Leu Glu His Tyr Ile Lys Arg Val
 1 5 10 15
 Asn Leu Arg Ile Ile Ala Ile Glu Glu Gly Glu Lys Ser Gln Leu Lys
 20 25 30
 Gly Pro Lys
 35

<210> 104
 <211> 573
 <212> DNA
 <213> Mus musculus

<400> 104
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 ctagcagaca gactgaagca tctagcagac agactgaaac atctaacaga cagattgggg 180
 catctaacag acagatcatg gcatctaaca gacagattgg ggcattctaac agacagattg 240
 aggcatctaa cagacagatt ggggcatcta acagacagac agaggtatct agcagacaga 300
 ttgaggcatc taacagacag attggggcat ctaacagaca aactgaggca tctaacagac 360
 agattggggc atctaacaga cagactgagg catctaacag acagattggg gcatctaaca 420
 gacagactga tgcattctaac agacagactg atgcatctaa cagacagact gaggcattcta 480
 gcagacagac agaggcatct agcagacaga cagaggcatc tagcagacag actgaggcat 540
 ctagcagaca aattgaggca tcagctgcag ctg 573

<210> 105
 <211> 213
 <212> DNA
 <213> Mus musculus

<400> 105
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 cagattgggc atctaacaga cagactgagg catctaacag acagattggg gcatctaaca 120
 gacagactga tgcattctaac agacagactg atgcatctaa cagacagact gaggcattcta 180
 gcagacagac agaggcatct agcagacaga ctg 213

<210> 106
 <211> 165
 <212> DNA
 <213> Mus musculus

<400> 106
 gacaaactga ggcattctaac agacagattg gggcatctaa cagacagact gaggcattcta 60
 acagacagat tggggcatct aacagacaga ctgatgcac taacagacag actgatgcat 120
 ctaacagaca gactgaggca tctagcagac agacagaggc acgac 165

<210> 107
 <211> 135
 <212> DNA
 <213> Mus musculus

<400> 107

gacagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta	60
acagacagac tgatgcatct aacagacaga ctgatgcatc taacagacag actgaggcat	120
ctagcagtca gacag	135

<210> 108

<211> 135

<212> DNA

<213> Mus musculus

<400> 108

gacagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta	60
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ctagcagtca gacag	135

<210> 109

<211> 135

<212> DNA

<213> Mus musculus

<400> 109

gacagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta	60
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ctagcagtca gacag	135

<210> 110

<211> 135

<212> DNA

<213> Mus musculus

<400> 110

gacagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta	60
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ctagcagtca gacag	135

<210> 111

<211> 135

<212> DNA

<213> Mus musculus

<400> 111

gacagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta	60
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acagacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgagacat 120
ctagcagtca gacag 135

<210> 112
<211> 135
<212> DNA
<213> Mus musculus

<400> 112
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acagacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgaggcat 120
ctagcagtca gacag 135

<210> 113
<211> 135
<212> DNA
<213> Mus musculus

<400> 113
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acagacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgaggcat 120
ctagcagtca gacag 135

<210> 114
<211> 135
<212> DNA
<213> Mus musculus

<400> 114
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acagacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgaggcat 120
ctagcagtca gacag 135

<210> 115
<211> 135
<212> DNA
<213> Mus musculus

<400> 115
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acagacagac tgatgcatct aacagacaga ctgacgcac taacagacag actgaggcat 120
ctagcagtca gacag 135

<210> 116
 <211> 135
 <212> DNA
 <213> Mus musculus

<400> 116
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 ctatcggtca gacag 135

<210> 117
 <211> 135
 <212> DNA
 <213> Mus musculus

<400> 117
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 acagacagac tgatgcattct aacagacaga ctgatgcattc taacagacag actgaggcat 120
 ctatcggtca gacag 135

<210> 118
 <211> 114
 <212> DNA
 <213> Mus musculus

<400> 118
 gacagattga ggcattctagc agacagactg aggcattctaa ccagacagact gaggcattcta 60
 gcagacagac tgaagcattct agcagacaga ctgaaacattc taacaaacag aaag 114

<210> 119
 <211> 552
 <212> DNA
 <213> Mus musculus

<400> 119
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 acagacagat tgaggcattct agcagacaga ctgaggcattc taacagacag actgaggcat 120
 ctatcgagaca gactgaggca tctatgcagac agactgaaac atctaacaga cagattgggg 180
 cattctaacag acagattcatg gcatctaaca gacagattgg ggcattctaac agacagattg 240
 aggcattctaa cagacagatt ggggcattcta acagacagac agaggattct agcagacaga 300
 ttgaggcattc taacagacag attggggcat ctaacagaca gactgaggca tctaacagac 360
 agattggggc atctaacaga cagactgagg cattctaacag acagattggg gcatctaaca 420
 gacagactga tgcatctaac agacagactg aggcattctag cagacagaca gaggcattcta 480

gcagacagac agaggcatct agcagacaga ctgaggcatc tagcagacaa attgaggcat 540
cagctgcagc tg 552

<210> 120
<211> 237
<212> DNA
<213> Mus musculus

<400> 120
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agggaacagg tggcactgct taagcagaaa gtcatgaacc acgttaacag tgggtgcaa 120
ctcatgctaa cgcagcagtt gcaaacgttt tgggaacaga ctgtcagggc tgaggggcaa 180
tggaagaaaa aaaataacag agacaaactt gagaacttga ctggttgca cagagaa 237

<210> 121
<211> 228
<212> DNA
<213> Mus musculus

<400> 121
cggatcaagg cagagaggaa gcgcatgagg aaccgcattg ccgcctccga gtgccgga 60
aggaagctgg agcggatcgc tcggctagag gaaaaagtga aaaccttgaa agcgcaaaac 120
tccgagctgg catccacggc caacatgctc agggaacagg tggcacagct taagcagaaa 180
gtcatgaacc acgttaacag tgggtgcaa ctcatgctaa cacagcag 228

<210> 122
<211> 149
<212> DNA
<213> Mus musculus

<400> 122
gggcatctgg cagacagact gaggcatcta acagacagat tgaggcatct agcagacaga 60
ctgaggcatc taacagacag actgaggcat ctagcagaca gactgaggca tctagcagac 120
agactgaaac atctaacaga cagatatgg 149

<210> 123
<211> 168
<212> DNA
<213> Mus musculus

<400> 123
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aggcatctaa cagacagatt gaggcatcta acagacagac tgatgcatct aacagacaga 120

ctggggcatc tagcagacag acagaggcat ctagcagaca gacagaga 168

<210> 124

<211> 132

<212> DNA

<213> Mus musculus

<400> 124

gcagacagat tggggcatct ggcagacaga ctgaggcatc taacagacag attgaggcat 60
ctagcagaca gactgaggca tctaacagac agactgaggc atttagcaga cagactgagg 120
catctagcag ac 132

<210> 125

<211> 132

<212> DNA

<213> Mus musculus

<400> 125

gcagacagat tggggcatct ggcagacaga ctgaggcatc taacagacag attgaggcat 60
ctagcagaca gactgagaca tctaacagac agactgaggc atttagcaga cagactgagg 120
catctagcag ac 132

<210> 126

<211> 81

<212> DNA

<213> Mus musculus

<400> 126

gcagacagac tgaggcatct aacagacaga ttgaggcatc tagcagacag actgaggcat 60
ctaacagaca gactgaggca c 81

<210> 127

<211> 159

<212> DNA

<213> Mus musculus

<400> 127

acagacagat tggggcatct aacagacaga ctgaggcatc taacagacag attggggcat 60
ctaacagaca gactgaggca tctaacagac agattggggc atctaacaga cagactgatg 120
catctaacag acagactgag gcatctagca gacagaccg 159

<210> 128

<211> 138

<212> DNA

<213> Mus musculus

<400> 128

agacagaggc atctaacaga cagactgagg catctaacag acagattggg gcatctaaca	60
gacagactga ggcatctaac agacagattg gggcatctaa cagacagact gatgcatcta	120
acagacagac tgaggccc	138

<210> 129

<211> 117

<212> DNA

<213> Mus musculus

<400> 129

gacagattga gccatctagc agacagactg aggcatctaa cagacagact gaggcattta	60
acagacagat tggggcatct aacagacaga ctgaggcatc tagcagacag acagagg	117

<210> 130

<211> 117

<212> DNA

<213> Mus musculus

<400> 130

gacagattga ggcatctagc agacagactg aggcatctaa cagacagact gaggcattta	60
acagacagat tggggcatct aacagacaga ctgaggcatc tagcagacag acagagg	117

<210> 131

<211> 117

<212> DNA

<213> Mus musculus

<400> 131

ggcagattga ggcatctagc agacagactg aggcatctaa cagacagact gaggcattta	60
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<210> 132

<211> 129

<212> DNA

<213> Mus musculus

<400> 132

tatctagcag acagattgag gcatctaaca gacagattgg ggcatctgac agacaggctg	60
aggcatctaa cagacagatt ggggcatcta acagacagac tgaggcatct aacagacaga	120

ttggggcaa 129

<210> 133
 <211> 129
 <212> DNA
 <213> Mus musculus

<400> 133
 tatctagcag acagattgag gcatctaaca gacagattga ggcatctaac agacaggctg 60
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 ttggggcaa 129

<210> 134
 <211> 228
 <212> DNA
 <213> Mus musculus

<400> 134
 cggatcaagg cagagaggaa gcgcatgagg aaccgcattg ccgcctccaa gtgccggaaa 60
 aggaagctgg agcggatcgc tcggctagag gaaaaagtga aaaccttgaa agcgcaaaac 120
 tccgagctgg catccacggc caacatgctc agggaacagg tggcacagct taagcagaaa 180
 gtcatgaacc acgttaacag tgggtgccaa ctcatgctaa cacagcag 228

<210> 135
 <211> 132
 <212> DNA
 <213> Mus musculus

<400> 135
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 gacagacaga aa 132

<210> 136
 <211> 108
 <212> DNA
 <213> Mus musculus

<400> 136
 ttggggcatc taacagacag actgaggcat ctaacagaca gattggggca tctaacagac 60
 agactgatgc atctaacaga cagactgagg catctagcag acaccag 108

<210> 137

<211> 132
 <212> DNA
 <213> Mus musculus

<400> 137
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 agactgaggc ac 132

<210> 138
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 ctgaggcatc taacagacag attggggcat ctaacagaca gactgatgca tctaacagac 120
 agactgaggc ac 132

<210> 139
 <211> 153
 <212> DNA
 <213> Mus musculus

<400> 139
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 ttggggcatc taacagacag actgatgcat ctaacagaca gactgaggca tctagcagac 120
 agacagaggc atctagcaga caggcagagg cac 153

<210> 140
 <211> 153
 <212> DNA
 <213> Mus musculus

<400> 140
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 agacagaggc atctagcaga cagacagagg cac 153

<210> 141
 <211> 1752
 <212> DNA
 <213> Mus musculus

<400> 141

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ggaaatggac	cctccaatat	ggttcacccc	agcctggaca	cattcacccc	tgaggagctg	120
ctgcagcaaa	tgaaggaact	cctggttgag	aaccaccagc	tgaaagaagc	catgaagcta	180
aataatcaag	ctatgaaagg	gcgatttgag	gagctgtccg	cctggacaga	gaagcagaag	240
gaagagcgcc	tgttgtttga	gatgcaaagc	aaagagggtta	aggagcgctt	taaggccctg	300
actcatgaaa	atgagaggct	gaaggaagag	cttggaaaaat	tcaaagagaa	atcagaaaaag	360
ccattggaag	acctcacagg	tggctacagg	tatccagag	ccttggagga	ggaagtggag	420
aagctgaaga	cccaggtgga	gcaggaagtg	gagcatctga	agatccagggt	gatgcgcctt	480
cgggctgaaa	aggcagacct	gctgggcatac	gtctcagaac	tgacagctcaa	actcaactcc	540
ggcggctcct	cggaagactc	cttcgttgag	atcaggatga	ccgaaggaga	gactgaaggg	600
gcaatgaagg	agatgaagaa	ctgccctaca	cccacaagaa	cagaccccat	cagcttgagc	660
aactgtacag	aggatgccag	gagttgtgag	gagtttgaag	aactgactgt	gagccagctt	720
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gccaaagaaa	gaatttcaga	ttttgaaaag	aaagcaaatg	gccattcttc	tactgagaag	840
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gaagtggaaa	cactgagcat	tcaagtgaac	tctctgttta	aggagcttca	agaggcacac	960
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gagaggaaga	actctgcaac	accatcagag	ctgaatgaaa	agcaagagct	cgtttacagt	1080
aacaagaagt	tagagctgca	ggtggagagc	atgcgctccg	aaatcaagat	ggagcaggcc	1140
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caagaacata	ataaggcact	gaaaacaatt	gaagaactaa	ccaagcaaca	ggcagaaaag	1260
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ctggagacca	tggccgtcct	cagggtcag	atggaggtgt	actgctcaga	ttttcacgct	1440
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atgttctgta	aagagaacaa	tgacattgaa	gagggaggca	gtagacagtc	cctgatggaa	1560
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agaggagccg	aggacaggag	ctggcagcac	gggcagcagc	ctcgagctat	tccgattcac	1680
tcctgccccca	agtgcgggga	ggtcctgcgc	gacatcgaca	cgcttcagat	ccatgtgatg	1740
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<210> 142

<211> 324

<212> DNA

<213> Mus musculus

<400> 142

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ggctcctcgg	aagactcctt	cgttgagatc	aggatgaccg	aaggagagac	tgaaggggca	180
atgaaggaga	tgaagagctg	ccctacaccc	acaagaacag	accccatcag	cttgagcaac	240

tgtacagagg atgccaggag ttgtgctggag tttgaagaac tgactgtgag ccagcttctg 300
ctttgcctaa gggaaggaaa ccaa 324

<210> 143
<211> 186
<212> DNA
<213> Mus musculus

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aggatgaccg aaggagagac tgaaggggca atgaaggaga tgaagaactg ccctacaccc 180
acaaga 186

<210> 144
<211> 186
<212> DNA
<213> Mus musculus

<400> 144
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tcagaactgc agctcaaact caactccggc ggctcctcgg aagactcctt cgttgagatc 120
aggatgaccg aaggagagac tgaaggggca atgaaggaga tgaagaactg ccctgcaccc 180
acaaga 186

<210> 145
<211> 186
<212> DNA
<213> Mus musculus

<400> 145
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tcagaactgc ggctcaaact caactccggc ggctcctcgg aagactcctt cgttgagatc 120
aggatgaccg aaggagagac tgaaggggca atgaaggaga tgaagaactg ccctacaccc 180
acaaga 186

<210> 146
<211> 306
<212> DNA
<213> Mus musculus

<400> 146
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aattctcgag	gaaggaccga	gacactgtct	tctcagcctg	cacctgaaca	gttatgtgat	180
atgtccctac	atgtagacaa	cgaagtgaca	ataaatcaga	ctacactgaa	gctgagcaca	240
aggagcccta	tggaagaaga	ggaggaggaa	gaggaggagg	aagaggagga	ggaagaatct	300
gattcg						306

<210> 147

<211> 249

<212> DNA

<213> Mus musculus

<400> 147

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ttagcccttc	aatccatgat	aaattctcga	ggaaggaccg	agacactgtc	ttctcagcct	180
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<210> 148

<211> 237

<212> DNA

<213> Mus musculus

<400> 148

aggaagtgga	aggggacgtt	gagtcgactg	caggagctcc	gcaaggaggt	ggaaaccccg	60
ctgcgtctaa	aggcggctct	acacgaccaa	ctgaaccgcc	tcaaggttga	agaattagcc	120
cttcaatcca	tgataaatc	tcgaggaagg	accgagacac	tgtcttctca	gcctgcacct	180
gaacagttat	gtgatatgtc	cctacatgta	gacaacgaag	tgacaataaa	tcagact	237

<210> 149

<211> 1239

<212> DNA

<213> Mus musculus

<400> 149

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cgaacggact	cagtcacat	tgcagatcaa	acgcctactc	caactagatt	cctgaagaac	180
tgtgaggaag	tggggctctt	caatgaacta	gctagctcct	ttgaacatga	atttaagaaa	240
gcttctgatg	acgatgagaa	aaagggtgct	gctgggcctc	ttgacatgtc	tctgccttct	300
acaccagaca	tcaaaatcaa	ggaagaagag	ccagtgggaag	tagactcadc	gccccctgac	360
agtcctgctt	ctagcccctg	ttccccacca	ctgaaggaga	aggaagttac	cacaaaaccg	420
gttgtgatct	ctaccctac	acctaccatt	gtacgtcctg	gtccctgcc	tctccactta	480

ggttatgatc	cacttcatcc	aactcttcc	tccccaacct	ctgtcatcac	acaggctcca	540
ccatccaaca	ggcaaatagg	atctcctact	ggctccctcc	ctctcgtcat	gcattcttgc	600
aatggacaga	ccatgcctat	gttgccaggg	cctccagtac	agatgccttc	tgttatttcg	660
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ctacgcaatg	aggtggctca	gctgaagcag	ctactgttag	ctcataaaga	ttgccagtc	1200
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<210> 150

<211> 168

<212> DNA

<213> Mus musculus

<400> 150

cgatgccggc	aaaagcgga	actgtgggtg	tcctccctgg	aaaagaaggc	agaagaactt	60
acttctcaga	acattcagct	gagtaatgaa	gtcacattac	tacgcaatga	ggtggctcag	120
ctgaagcagc	tactgttagc	tcataaagat	tgtccagtca	ccgcacaa		168

<210> 151

<211> 3093

<212> DNA

<213> Mus musculus

<400> 151

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gacatcaagg	gaatgggcac	tgttcaaaaa	ggaatgccct	gtaagtgtta	ccacggcaaa	180
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gctctcagag	aagacctttg	gctcctcctc	cttttcaca	tcactgcccc	ggccaccctt	540
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gttctatgta	gacccacctc	tgacgtacca	gtcgtctgtg	gcgattttct	tccgtgtggc	3000
ggacctctgc	acttgccctc	agagctgcac	caccttacag	tcatccggac	caatgccagc	3060
ccacagaaat	gctaccacc	caccagtcct	ctg			3093

<210> 152

<211> 210

<212> DNA

<213> Mus musculus

<400> 152

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aagtcggagc ggatgaagct gcagggcatc atcagatccc tggagaaaga catccaaggg	120
ctcaagagag agatccagga gagggacgag accattcaag acatggagaa gcttgactac	180
aaggacgatt ataattcaaa cctagagatc	210

<210> 153

<211> 168

<212> DNA

<213> Mus musculus

<400> 153

aagaagttca gcagcctgca gaaggagatc gaagagcgca ccaacgacat cgagctcctc	60
aagtcggagc ggatgaagct gcagggcatc atcagatccc tggagaaaga catccaaggg	120
ctcaagagag agatccagga gagggacgag accattcaag acatggag	168

<210> 154

<211> 651

<212> DNA

<213> Mus musculus

<400> 154

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tacaaggtgg taatgctggg cgcagggggc gttggtaaaa gcgcagtcac aatgcagttt	120
ataagccacc agttcccga ctatcacgac ccacaaatcg aagatgctta taaaaccag	180
gtgaggattg ataatgagcc tgcttactta gacatcttgg acaactgctgg tcaggcagag	240
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gtcactgacc gccagtcatt ccaggaggct gccaaagttca aggagcttat tttccaggtc	360
cgtcacacct atgaaattcc ccttgtgcta gtgggtaaca aaattgactt ggagcagttc	420
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gagacatctg cagccctgcg attcggtatc gatgatgctt ttcaaggctt agtgagagaa	540
attcgcagga aggaatccat gctgtccttg gtggaaagga aattgaagag gaaggacagc	600
ctgtggaaga agataaaagc ctccctgaag aagaagagag aaaacatgtt g	651

<210> 155

<211> 150

<212> DNA

<213> Mus musculus

<400> 155

gcagccctgc gattcggtat cgatgatgct cttcaaggct tagtgagaga aattcgcagg	60
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aaggaatcca	tgctgccctt	ggtggaaagg	aaattgaaga	ggaaggacag	cctgtggaag	120
aagataaaag	cctccctgaa	gaagaagagg				150

<210> 156
 <211> 420
 <212> DNA
 <213> Mus musculus

<400> 156	
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gaatgaattt	gagggggcct ctcagtagac aaagccacct tgacccgatt cttcgctttc 120
cacttcatct	taccatttat tatcgcggcc ctagcaatcg ttcacctcct cttcctccac 180
gaaacaggat	caaacaaccc aacaggatta aactcagatg cagataaaat tccatttcac 240
ccctactata	caatcaaaga tatectaggt atcctaatac tattcttaac tctcataacc 300
ctagtattat	ttttcccaga catactagga gacccagaca actacatacc agctaatacca 360
ctaaacaccc	caccccatat taaaccgaa tgatatttcc tatttgcata cgccattcta 420

<210> 157
 <211> 123
 <212> DNA
 <213> Mus musculus

<400> 157	
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ctaatacatat	tcttaattct cataacccta gtattatttt tcccagacat actaggagac 120
cca	123

<210> 158
 <211> 933
 <212> DNA
 <213> Mus musculus

<400> 158	
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aaccgcttct	gggattacct gcgctgggtg cagacgctgt ctgaccaggt ccaggaagag 180
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ggtgaccgca	tccgagggcg	gctggaggaa	gtgggcaacc	aggcccgtga	ccgcctagag	720
gaggtgcgtg	agcacatgga	ggaggtgcgc	tccaagatgg	aggaacagac	ccagcaaata	780
cgcctgcagg	cggagatctt	ccaggcccgc	ctcaagggtct	ggttcgagcc	aatagtggaa	840
gacatgcata	gccagtgggc	aaacctgatg	gagaagatac	aggcctctgt	ggctaccaac	900
cccatcatca	ccccagtggc	ccaggagaat	caa			933

<210> 159

<211> 90

<212> DNA

<213> Mus musculus

<400> 159

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acacgggcca	ggctgggcaa	agaggagcag				90

<210> 160

<211> 2085

<212> DNA

<213> Mus musculus

<400> 160

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ctcaacatgc	acatgaatgt	gcagaatgga	aagtgggagt	cagacccgtc	agggacccaa	180
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gtggagggtcg	acgccgccgt	gaccccagag	gagcgccatc	tctccaagat	gcagcagaac	2040
ggatatgaga	atccaactta	caagttcttt	gagcaaatgc	agaac		2085

<210> 161

<211> 201

<212> DNA

<213> Mus musculus

<400> 161

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cacccttctg	gggtggactc	tgtgccagcc	aataccgaaa	atgaggtcga	gcctgttgac	180
gccccccccg	ctgctgaccg	a				201

<210> 162

<211> 1236

<212> DNA

<213> Mus musculus

<400> 162

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ccaaatgctg	gagacaaatt	taaagaaata	agttttgcat	atgaagtatt	gtcaaatacca	180
gagaagcgag	agctgtatga	cagatatgga	gaacaaggcc	tacgggaagg	cagcggcgga	240
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gttcctaattg	ttattggaga	gacagaagaa	gtggagcttc	aggaatttga	tagcactcga	1140
ggctctggcg	gtggtcagag	acgtgaagcc	tataatgata	gctctgatga	agaaagtagc	1200
agccatcatg	gacctggagt	gcagtgtgcc	catcag			1236

<210> 163

<211> 75

<212> DNA

<213> Mus musculus

<400> 163

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ggcagcggag	gagggc					75

<210> 164

<211> 2949

<212> DNA

<213> Mus musculus

<400> 164

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<213> Mus musculus

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<210> 166

<211> 87

<212> DNA

<213> Mus musculus

<400> 166

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<210> 167

<211> 105

<212> DNA

<213> Mus musculus

<400> 167

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<211> 5172

<212> DNA

<213> Artificial Sequence

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<223> vector CMV-FosCBPzz

<400> 168

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<223> PCR primer 5' SP6 (029) T7-FosCBPzz

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<223> PCR 5' primer (029)

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<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR 3' primer

<400> 178

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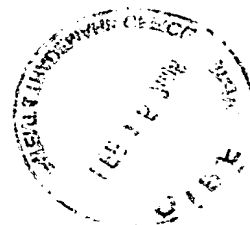
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